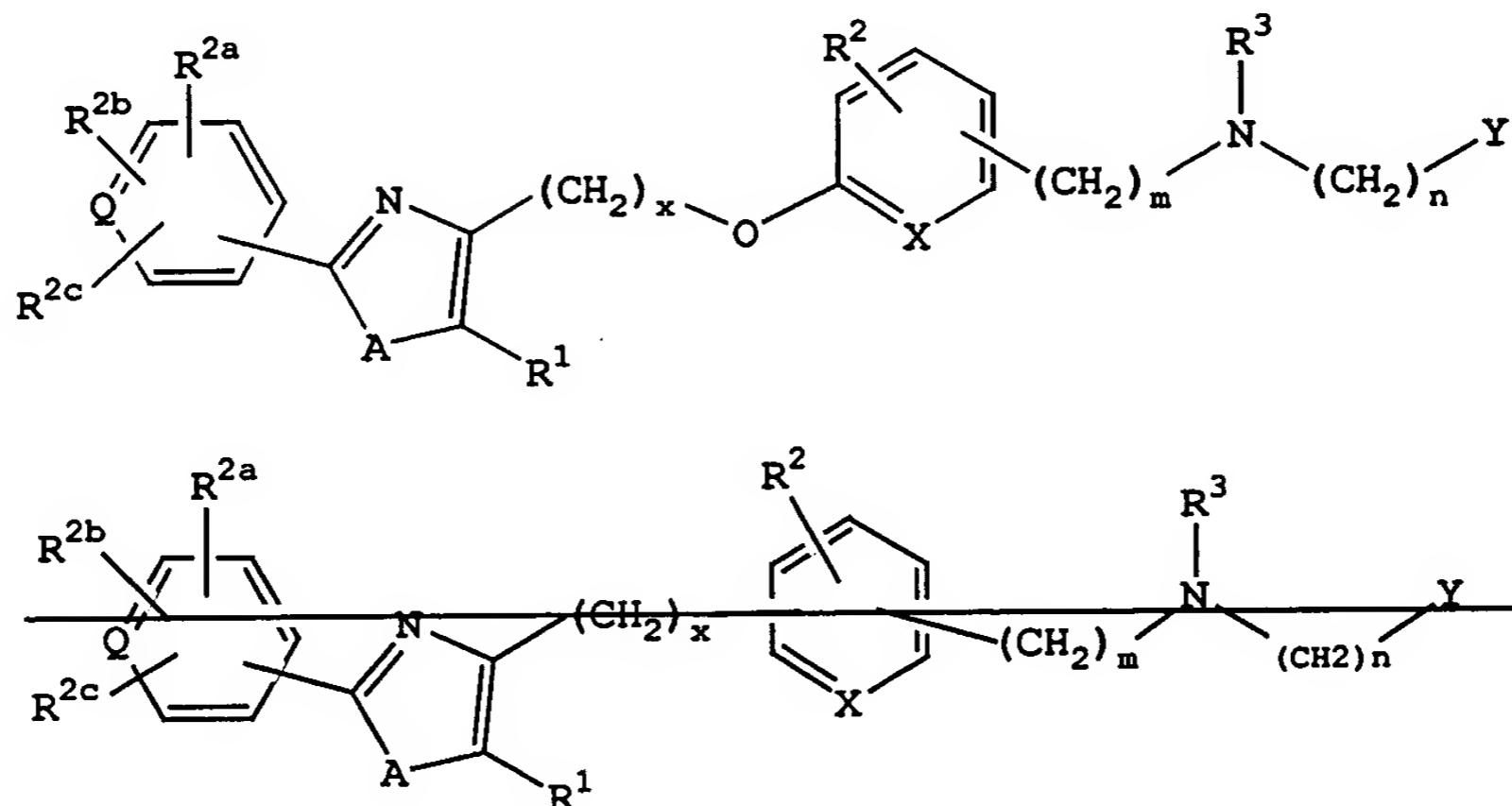


## CLAIM AMENDMENTS

**Claim 1 (cancelled)**

**Claim 2 (currently amended)**

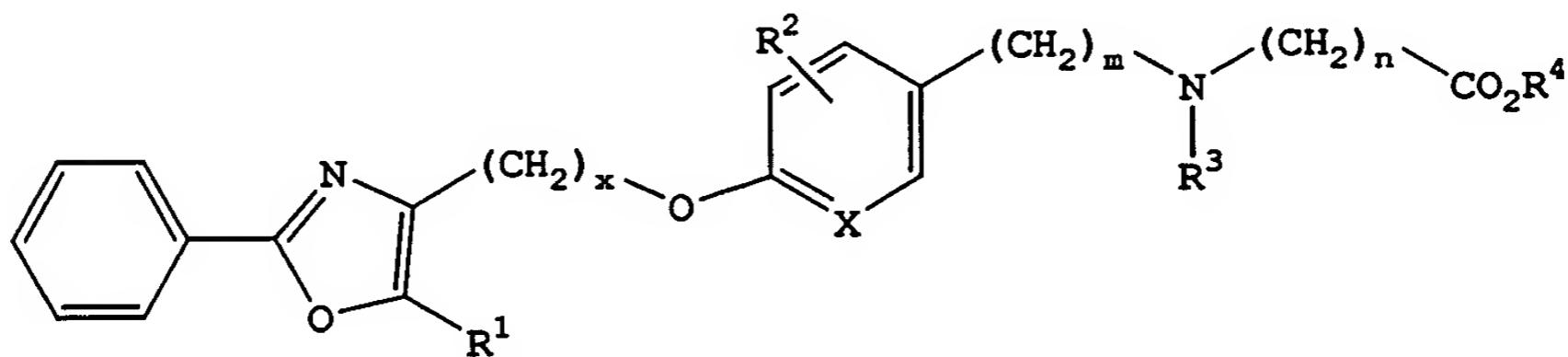
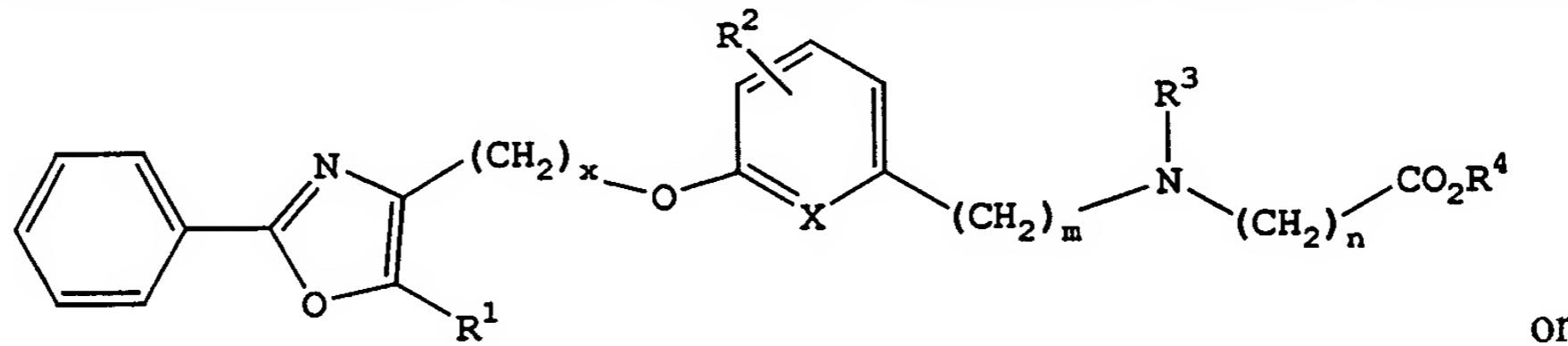
--2. The method as defined in Claim 34 wherein the compound employed has the structure



**Claim 3 (cancelled)**

**Claim 4 (previously amended)**

4. The method as defined in Claim 34 wherein the compound employed has the structure



**Claim 5 (previously amended)**

--5. The compound as defined in Claim 34 where in the compound employed (CH<sub>2</sub>)<sub>x</sub> is alkylene, alkenylene, allenyl, or alkynylene.--

### **Claims 6 to 9 (cancelled)**

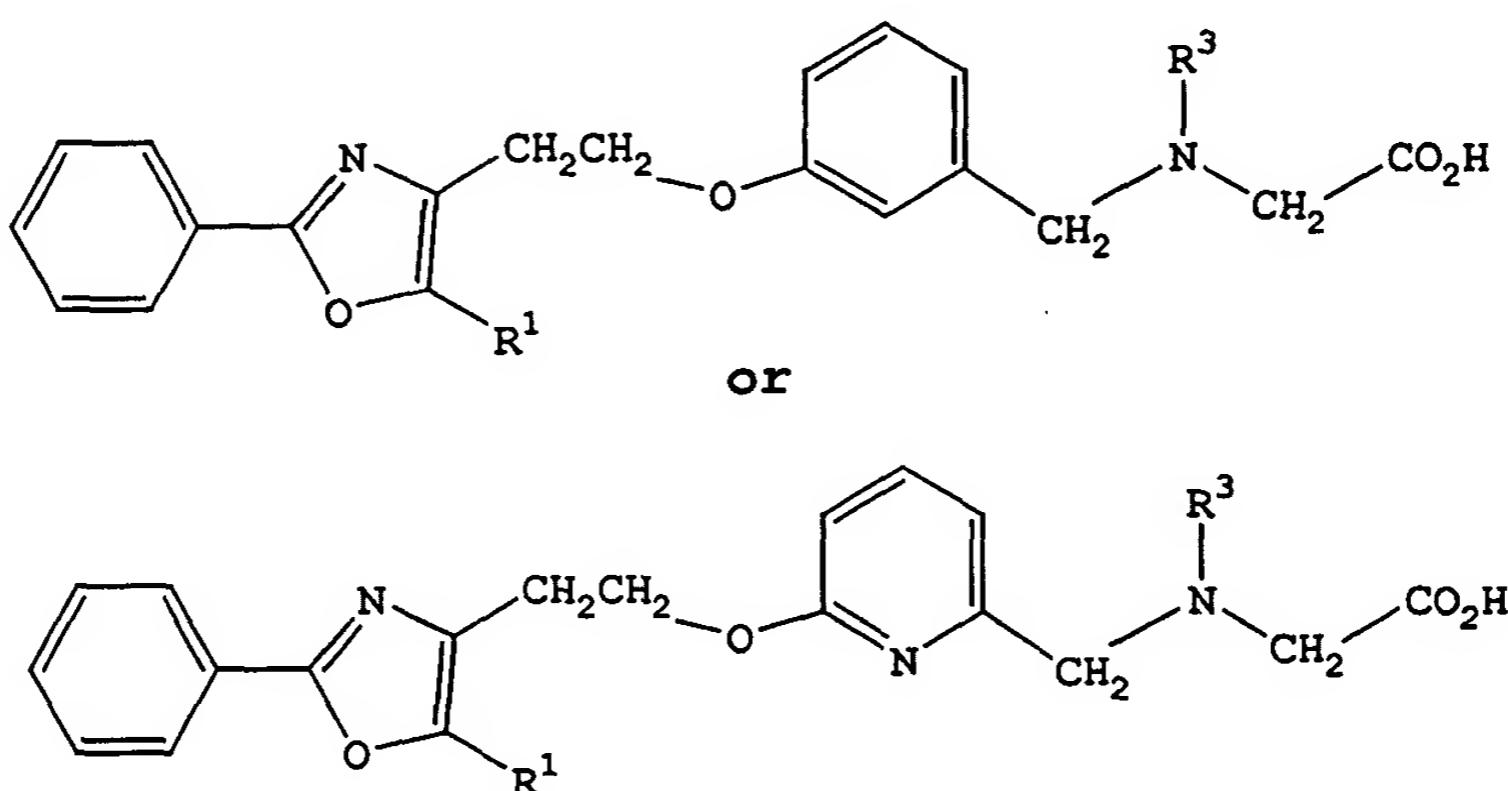
**Claim 10 (currently amended)**

--10. The method as defined in Claim 34 where in the compound employed  $(CH_2)_x$  is  $CH_2$ ,  $(CH_2)_2$ ,  $(CH_2)_3$ , or  $\begin{array}{c} CH_3 \\ | \\ -C- \\ | \\ CH_3 \end{array}$ ,  $(CH_2)_m$  is  $CH_2$ , or  $\begin{array}{c} R_a \\ | \\ -CH- \end{array}$  (where  $R_a$  is alkyl or alkenyl),  $(CH_2)_n$  is  $CH_2$ ,  $R^1$  is lower alkyl,  $R^2$  is H,  $R^{2a}$  is H,  $R^4$  is H, and  $R^3$  is arylalkyloxycarbonyl, aryloxycarbonyl, ~~haloaryl oxy carbonyl, alkoxyaryloxy carbonyl, alkylaryloxy carbonyl, aryloxyaryloxy carbonyl, heteroaryloxyarylalkyl, heteroaryloxy carbonyl, arylalkenyloxy carbonyl, cycloalkylaryloxy carbonyl, cycloalkyloxyaryloxy carbonyl, alkyloxyaryloxy carbonyl, arylalkylsulfonyl, arylalkenylsulfonyl, arylthiocarbonyl, cycloheteroalkylalkyloxycarbonyl, cycloheteroalkyloxycarbonyl, or polyhaloalkylaryloxy carbonyl~~, which may be optionally substituted. -

### Claims 11 to 13 (cancelled)

**Claim 14 (previously amended)**

--14. The method as defined in Claim 34 where the compound employed has the structure

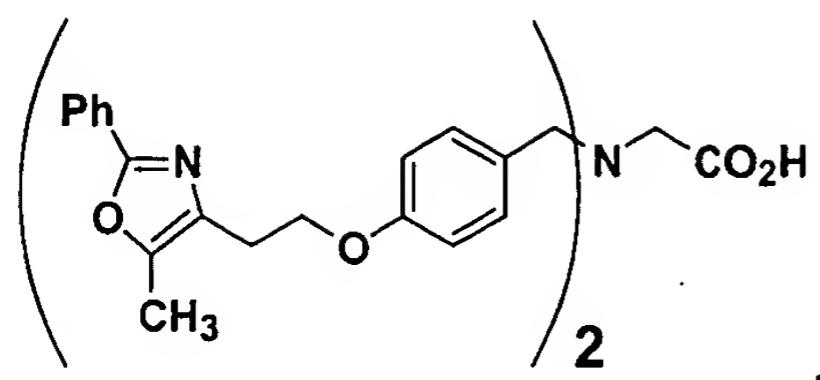


where  $(CH_2)_n$  is  $CH_2$ , or  $-\overset{CH_3}{CH}-$

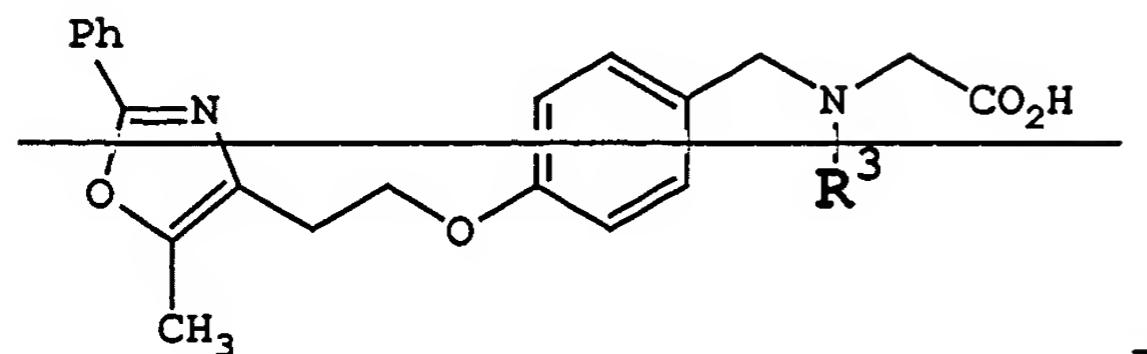
### Claim 15 (cancelled)

**Claim 16 (currently amended)**

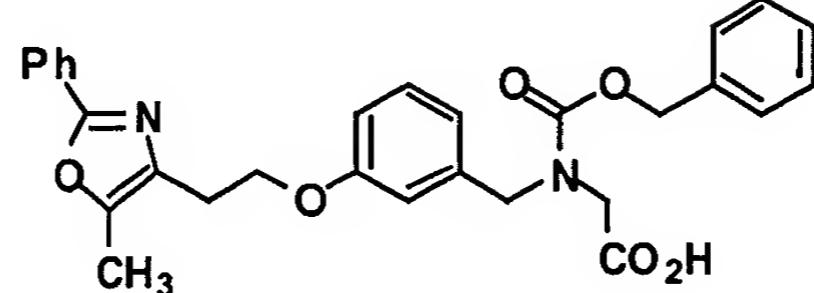
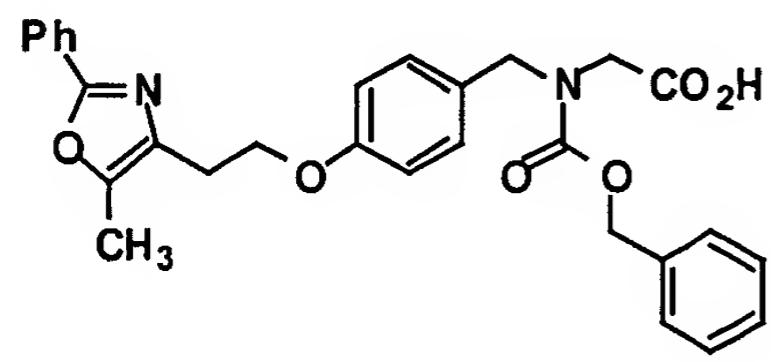
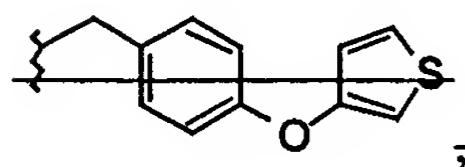
--16. The method as defined in Claim 34 wherein the compound employed has the structure



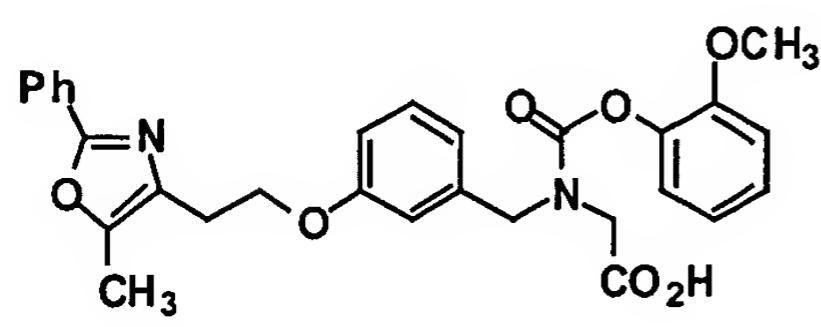
,



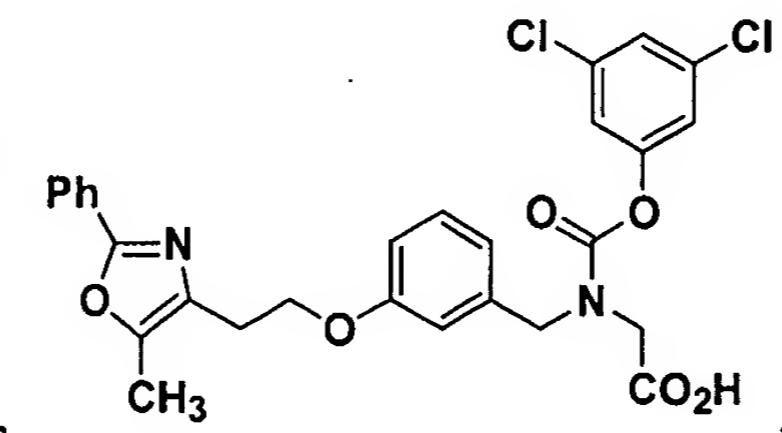
, where  $R^3 =$



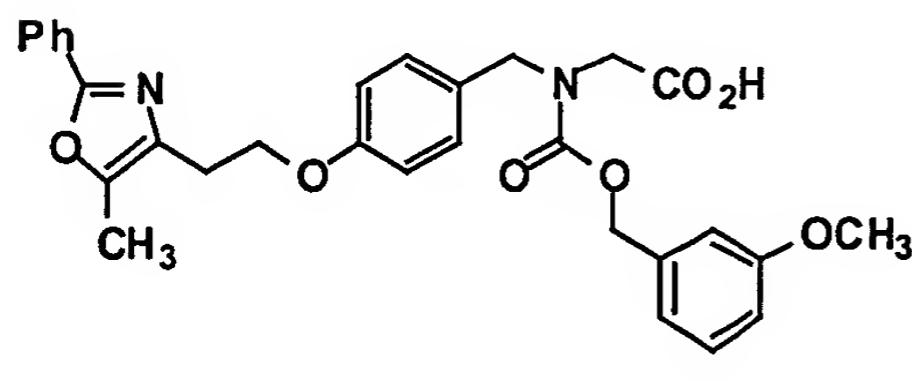
,



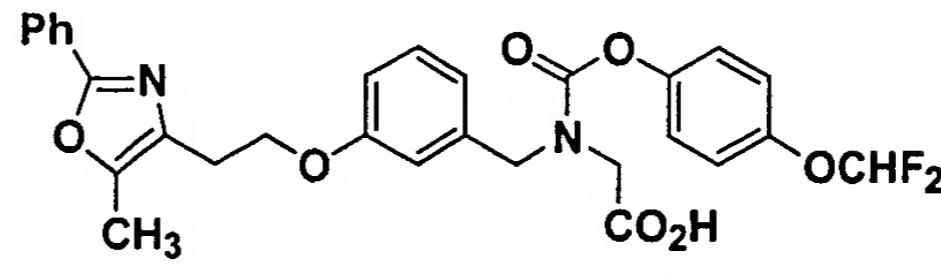
,



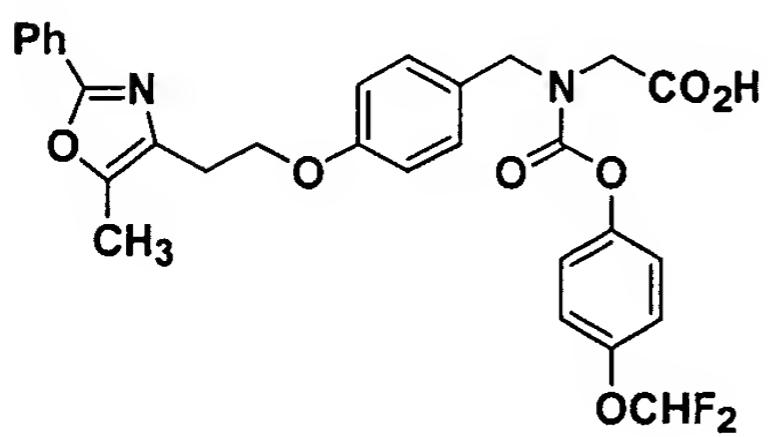
,



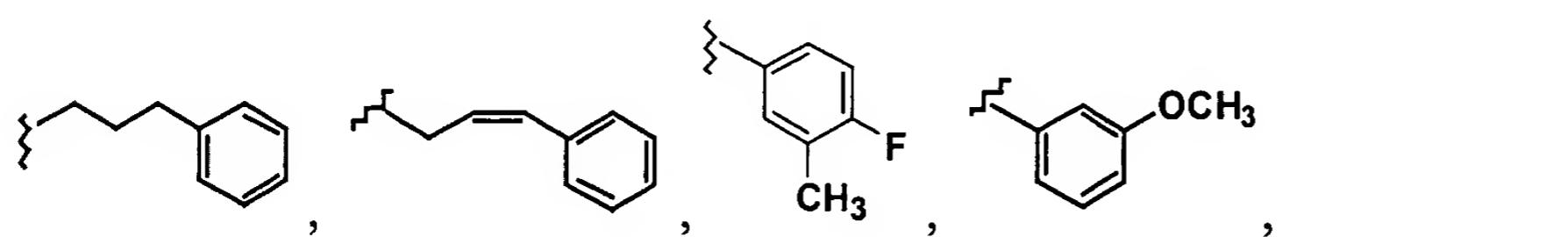
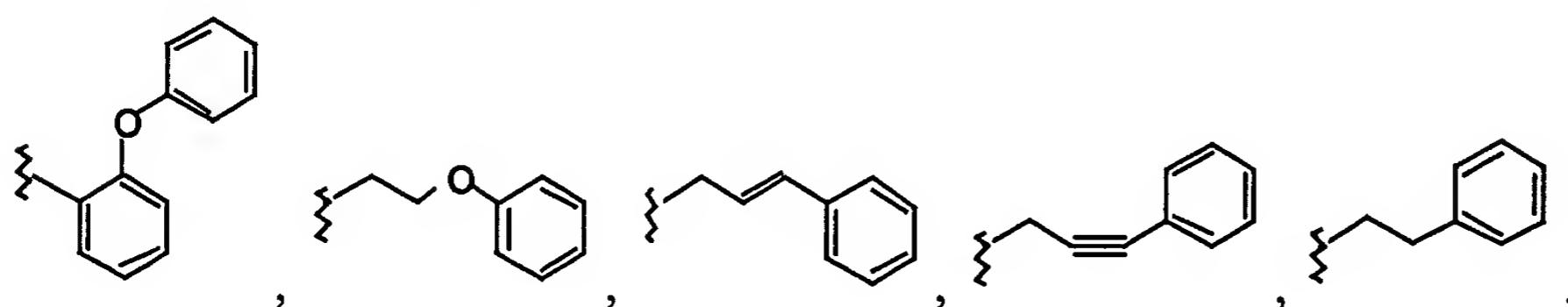
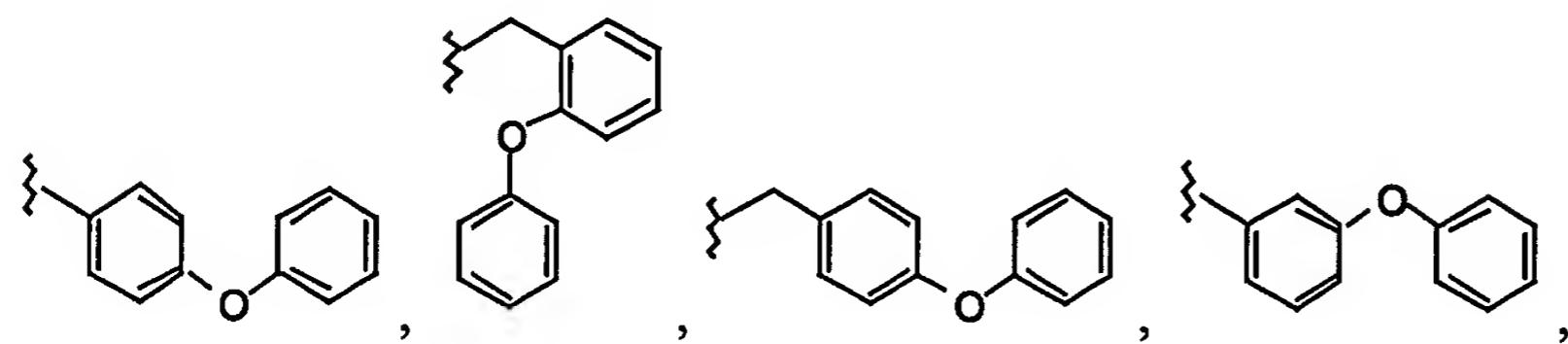
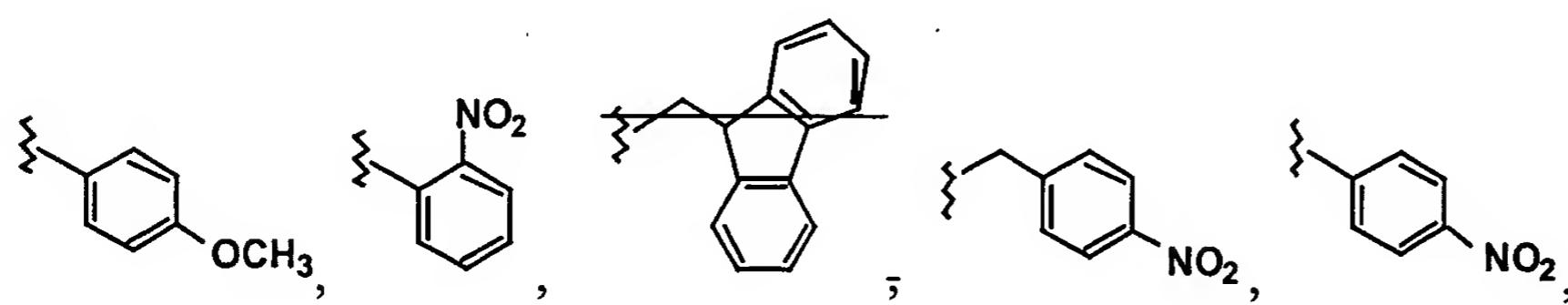
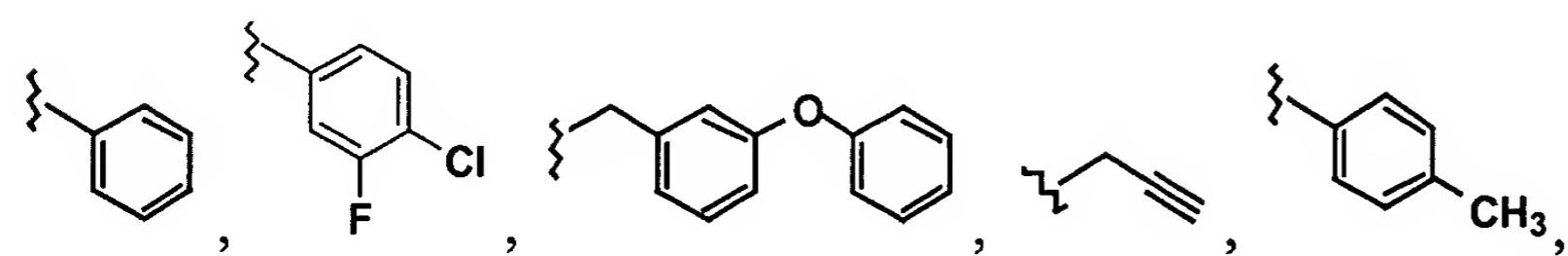
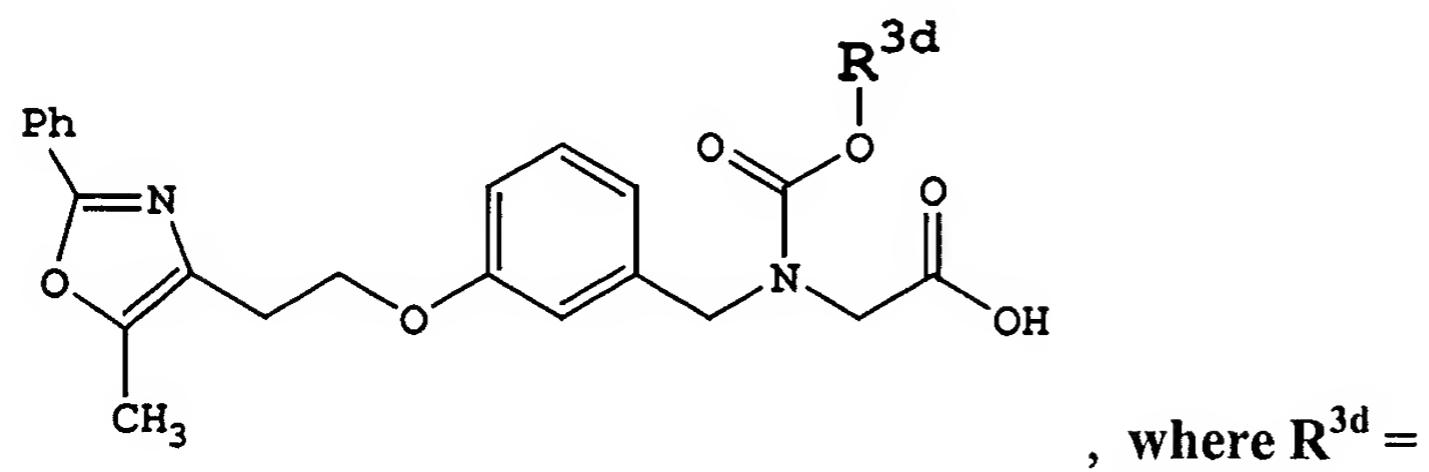
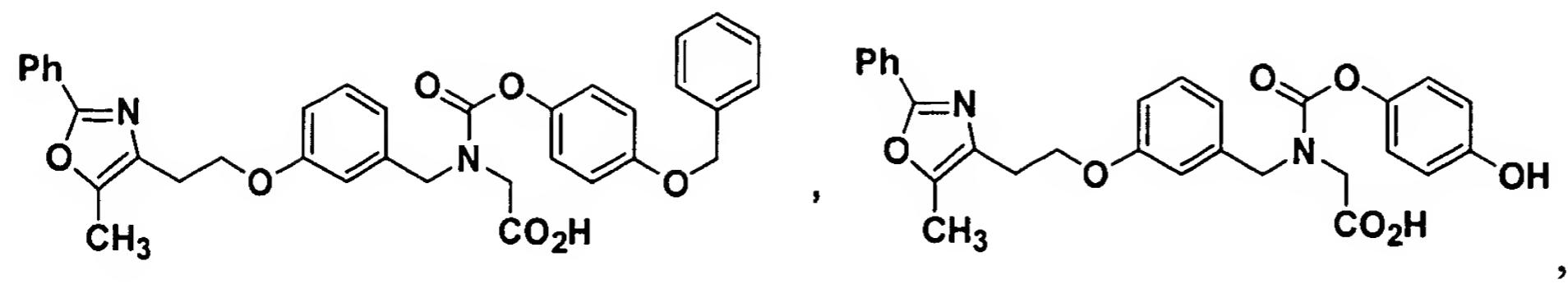
,

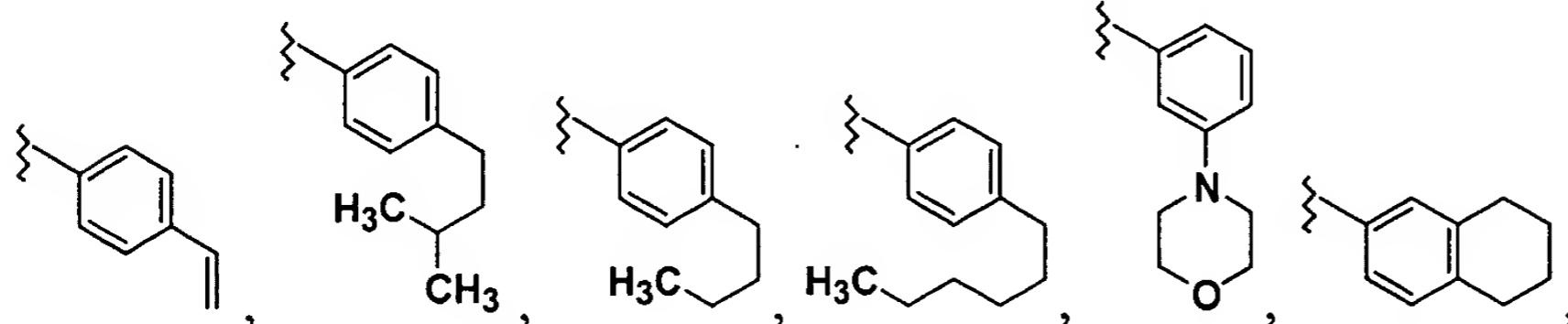
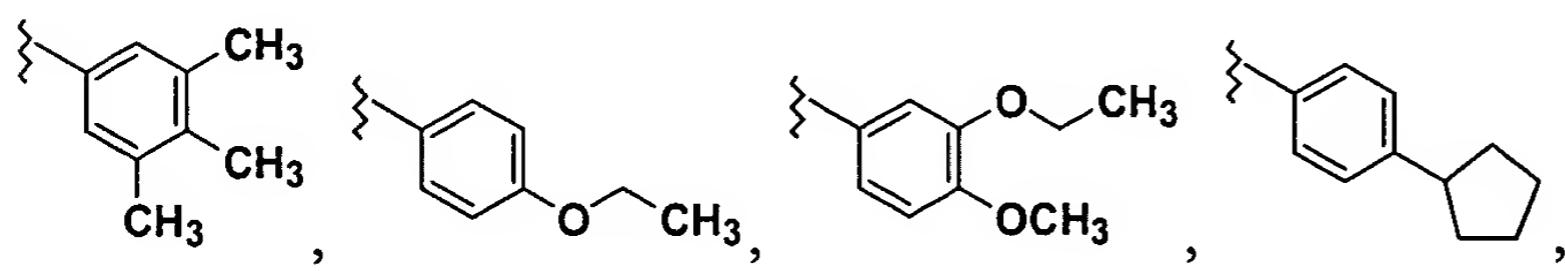
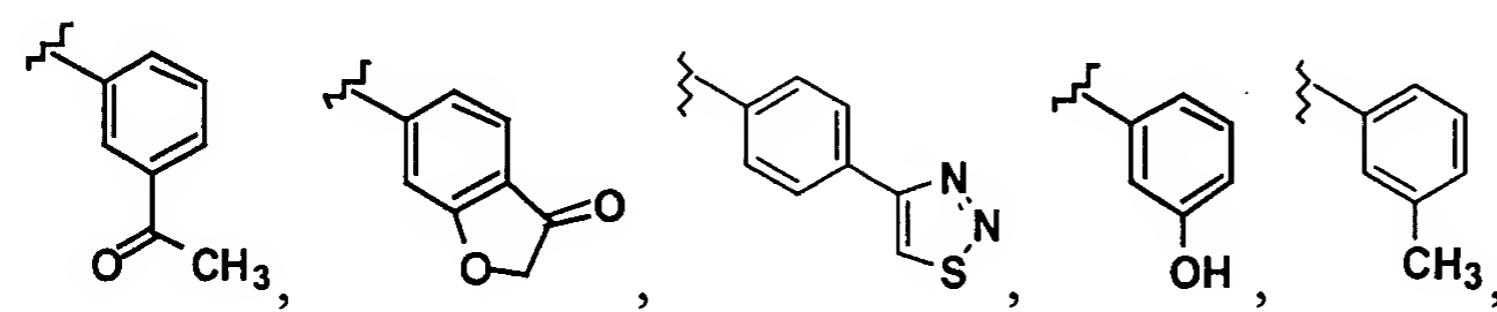
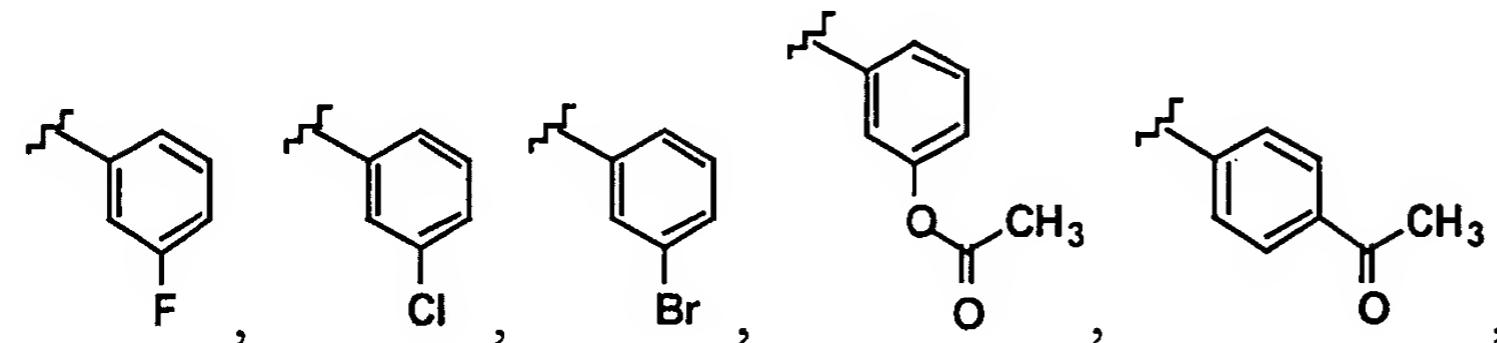
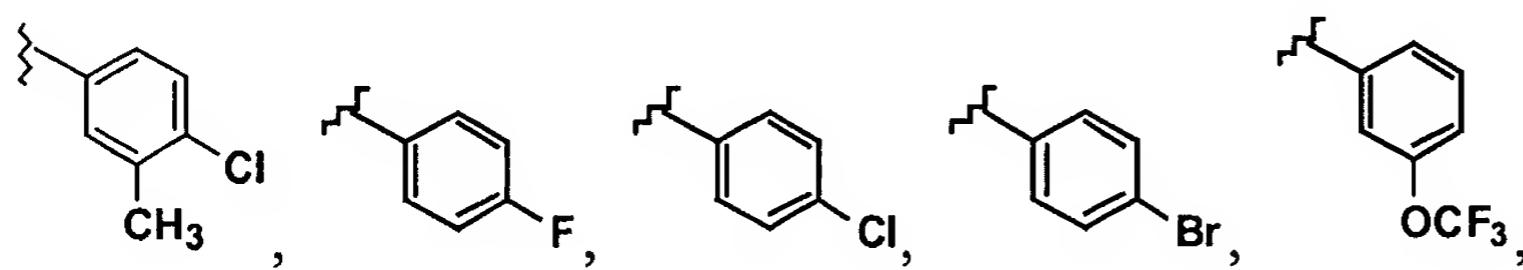
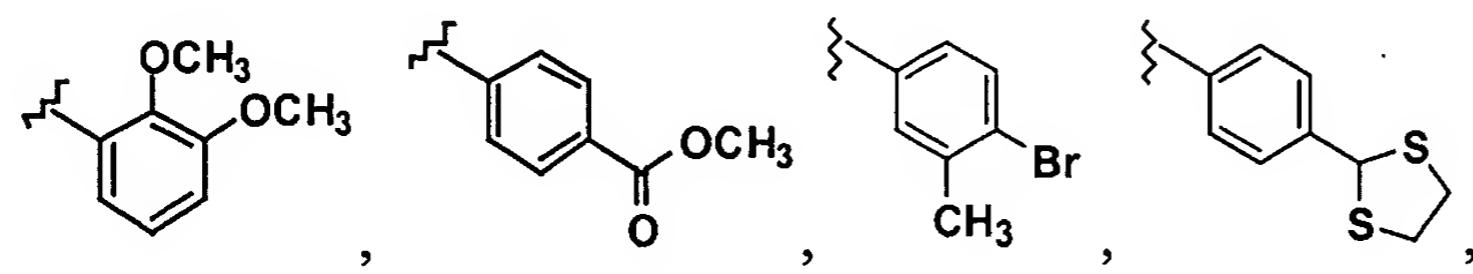
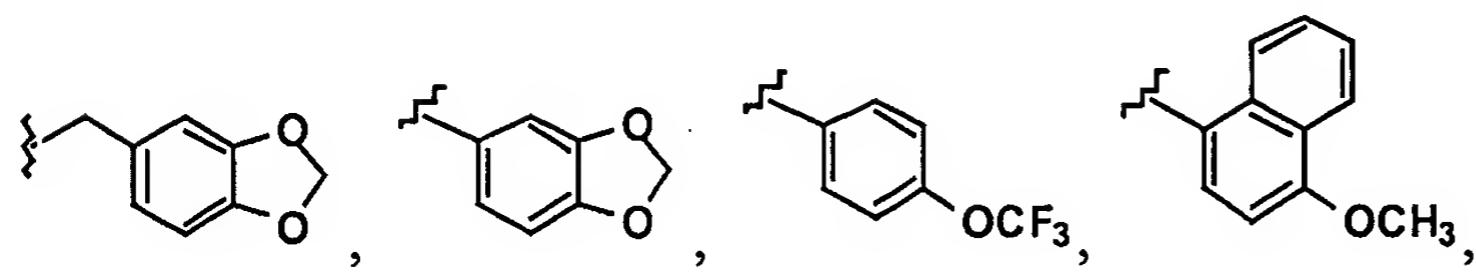
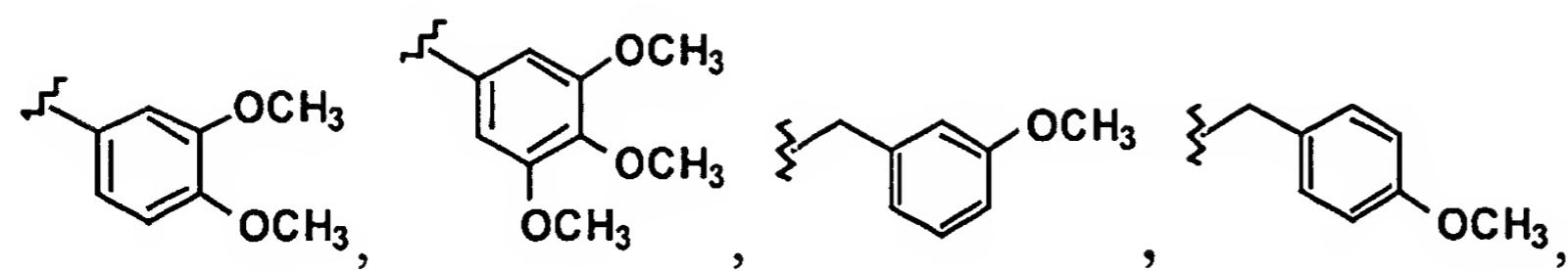


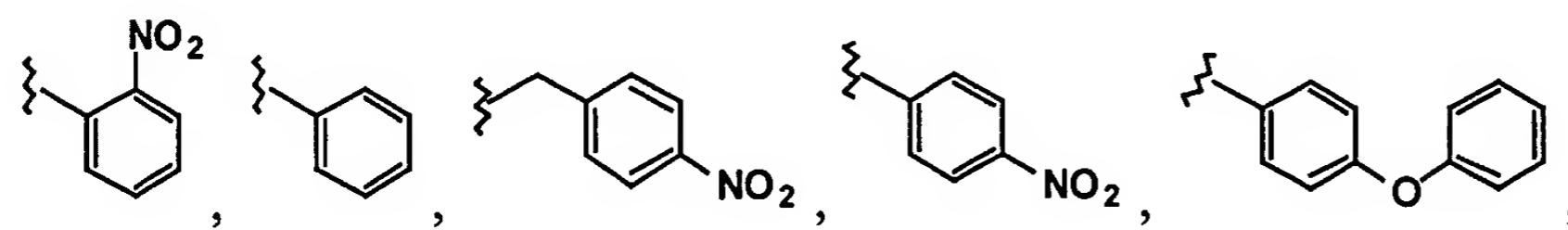
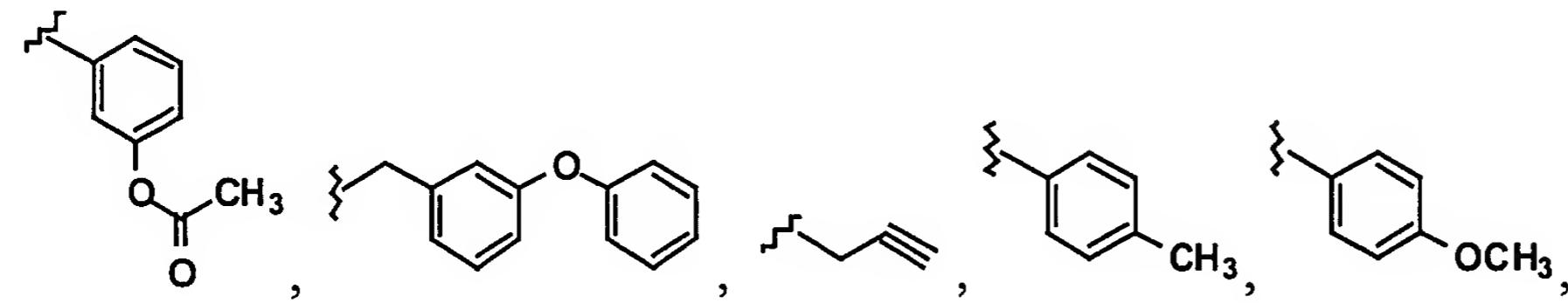
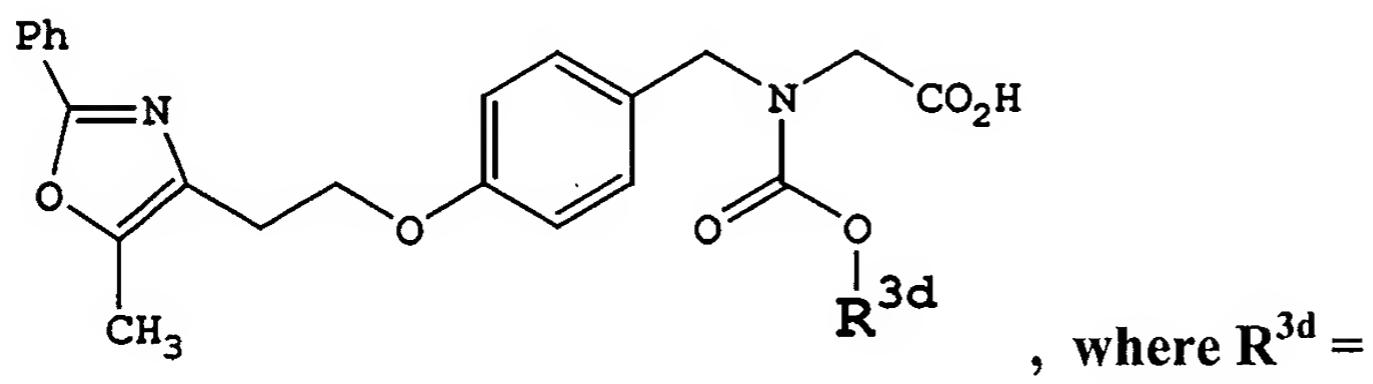
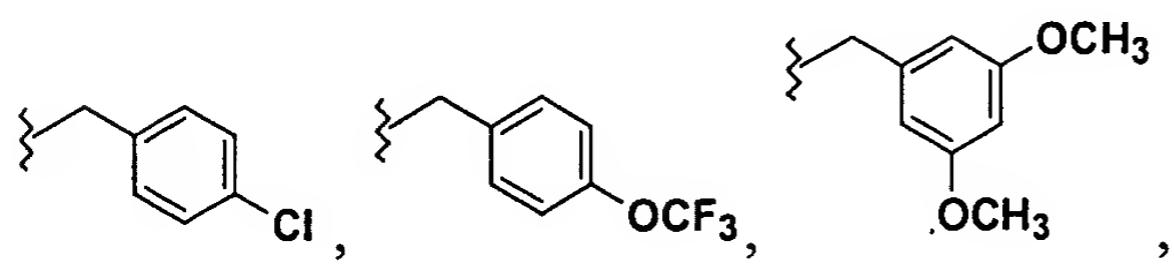
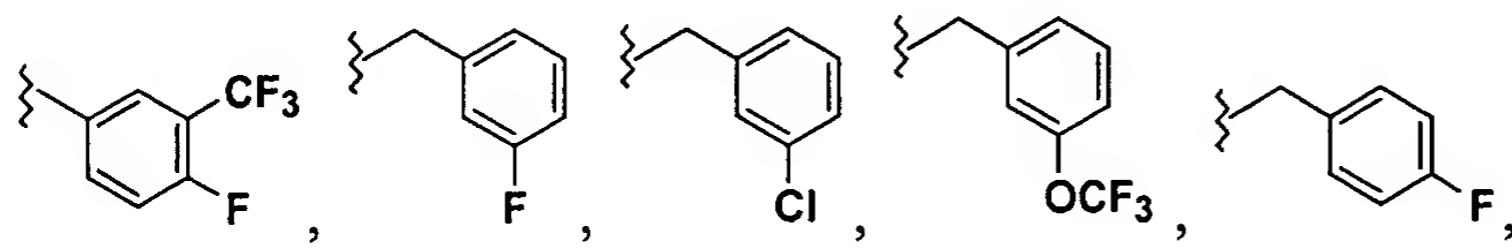
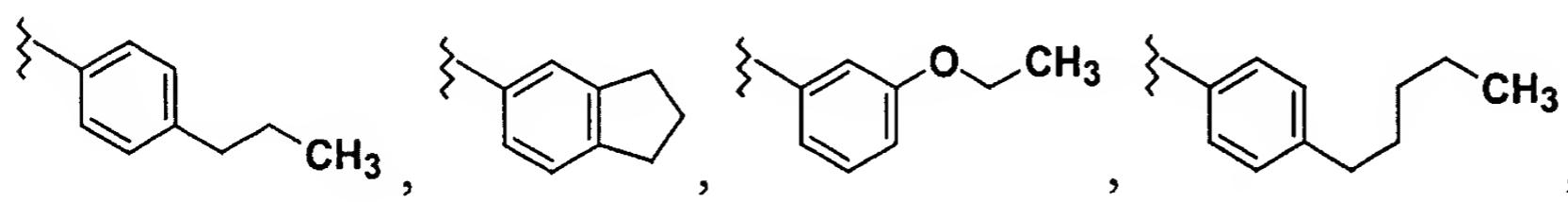
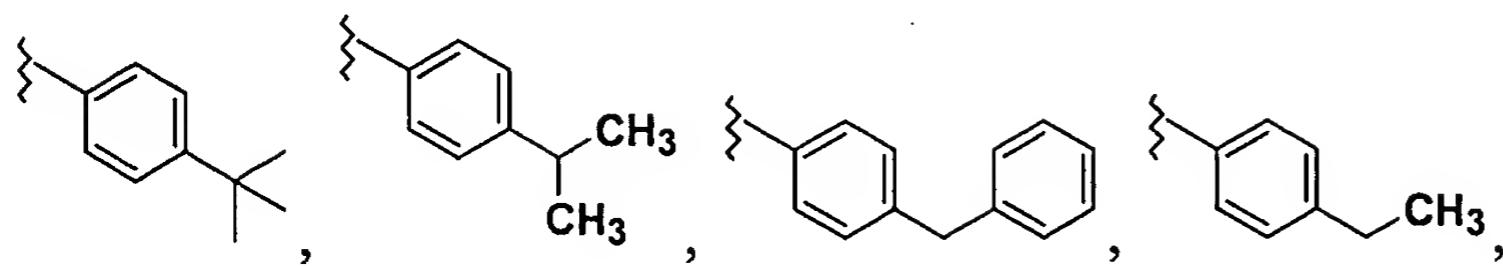
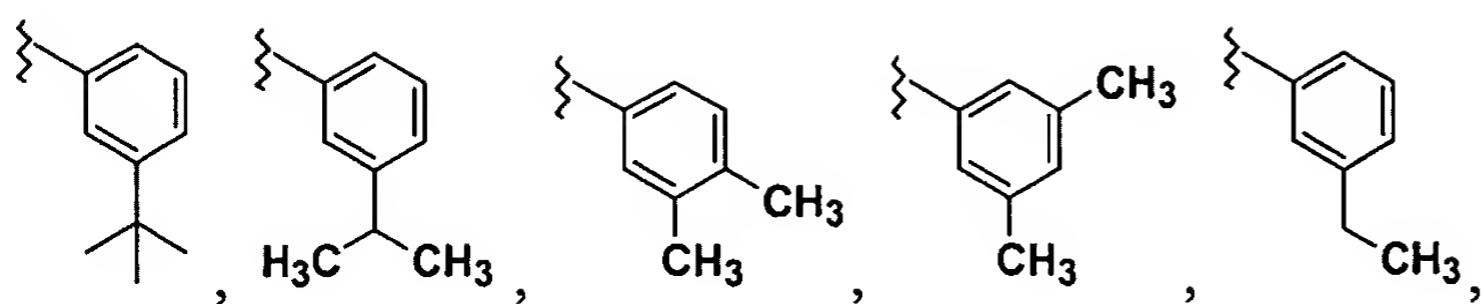
,

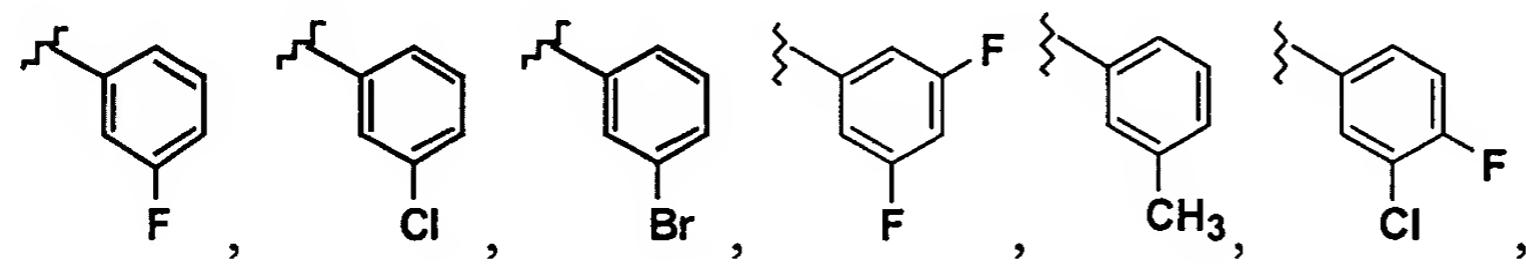
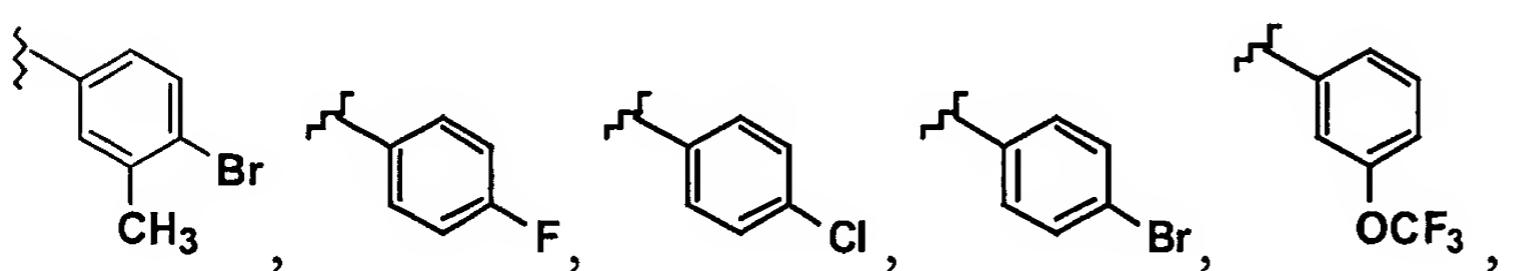
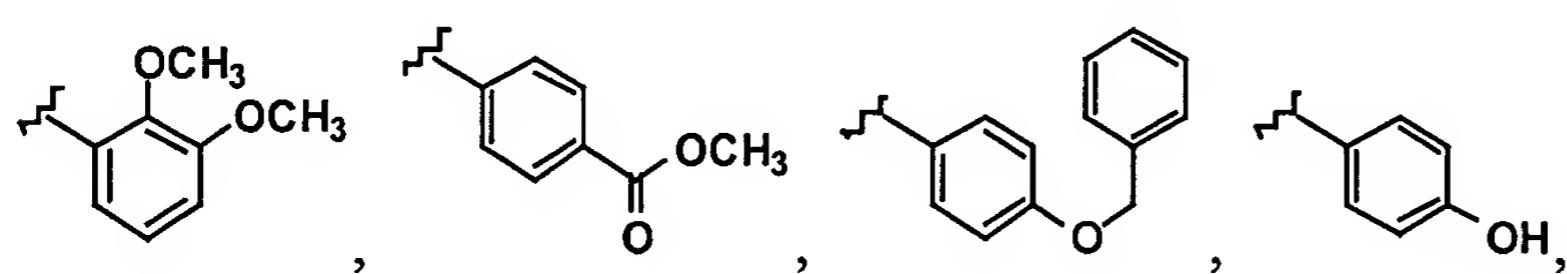
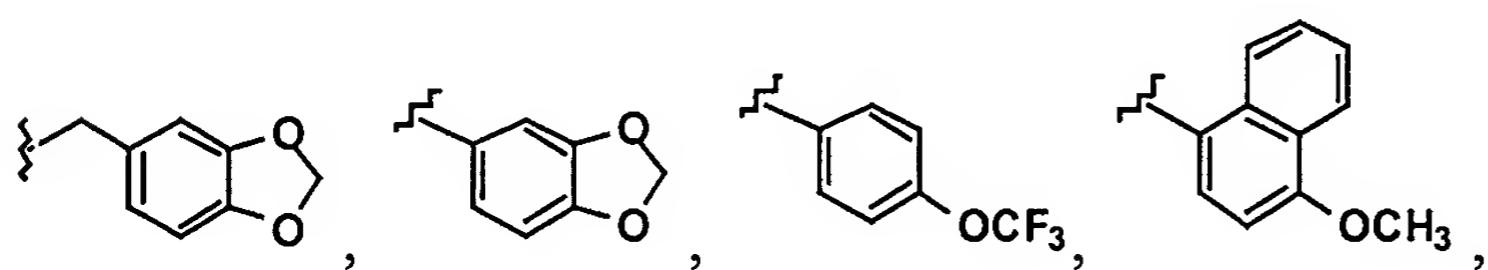
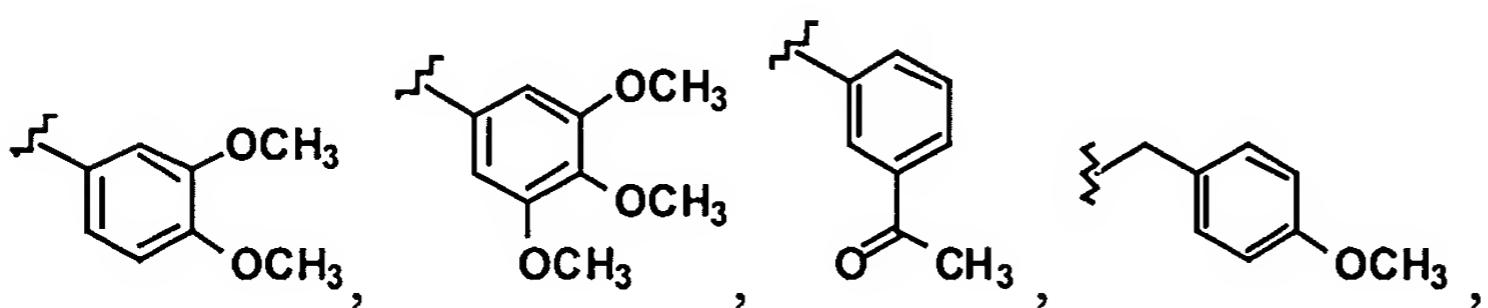
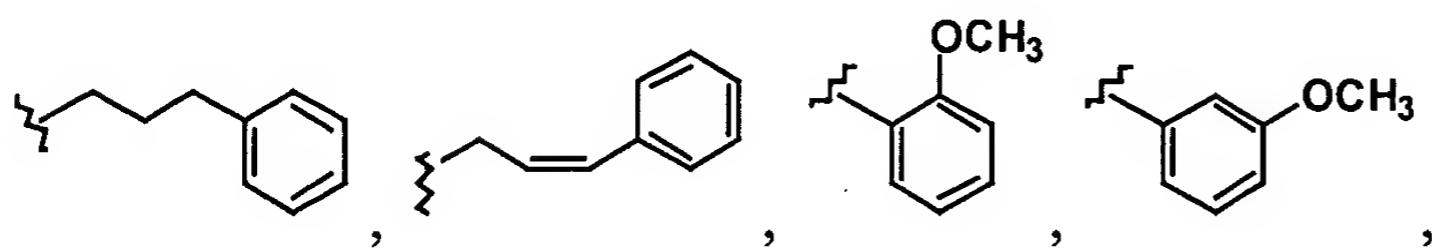
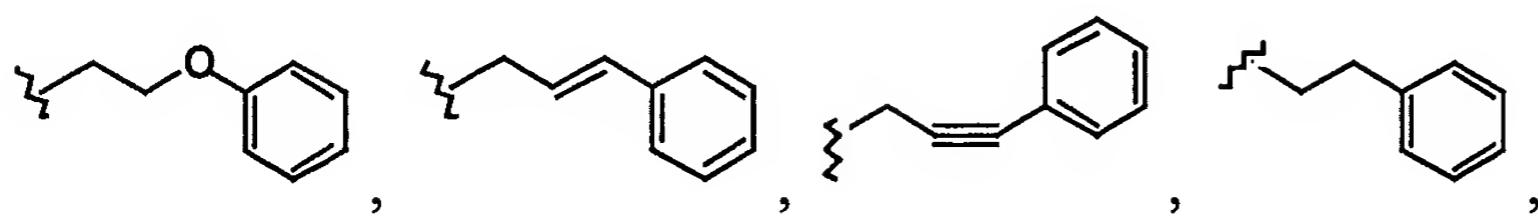
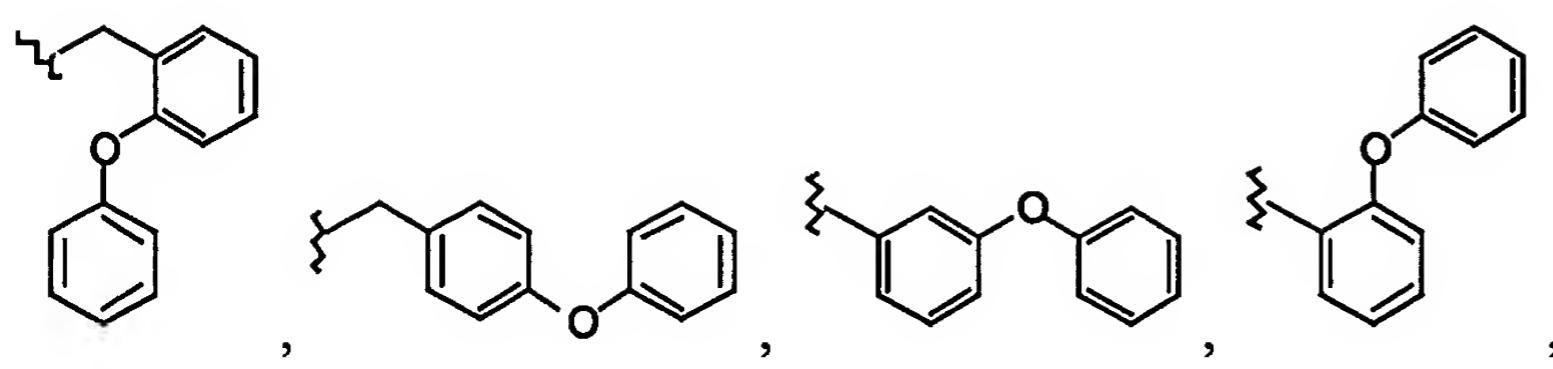


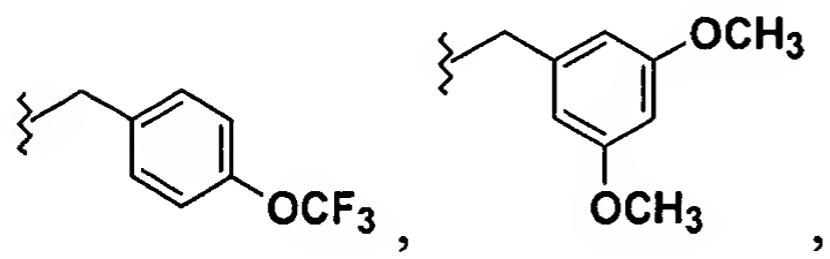
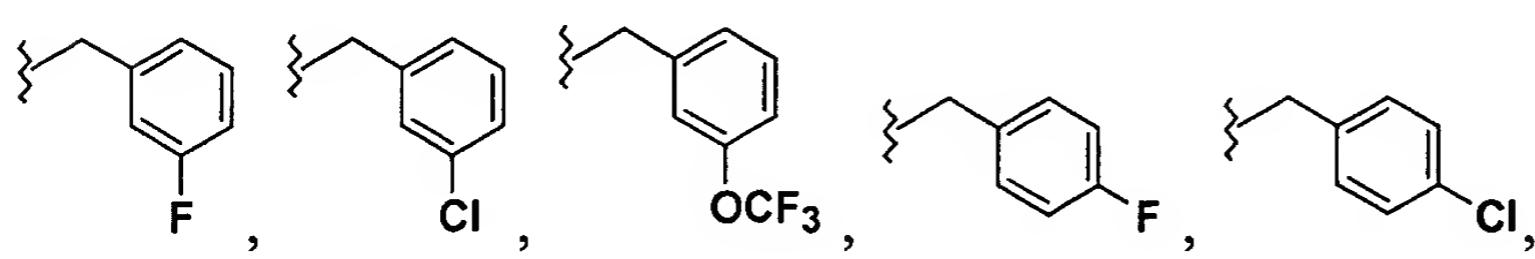
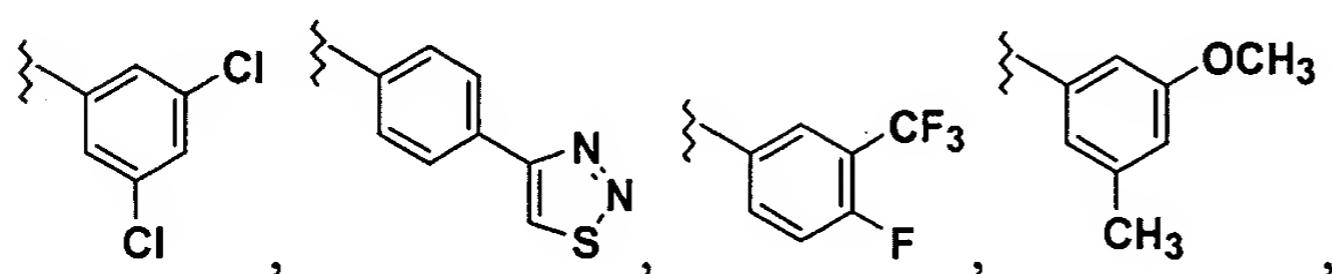
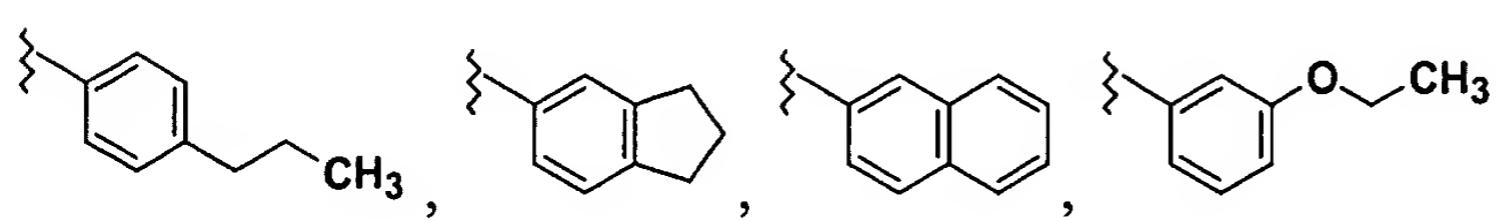
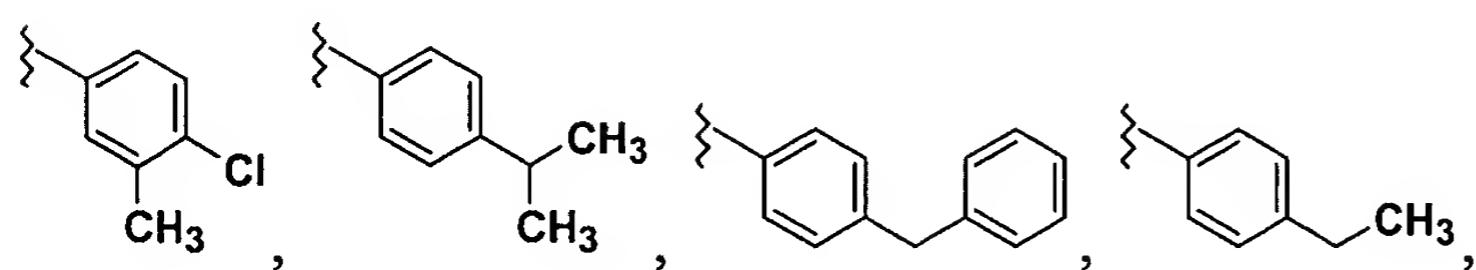
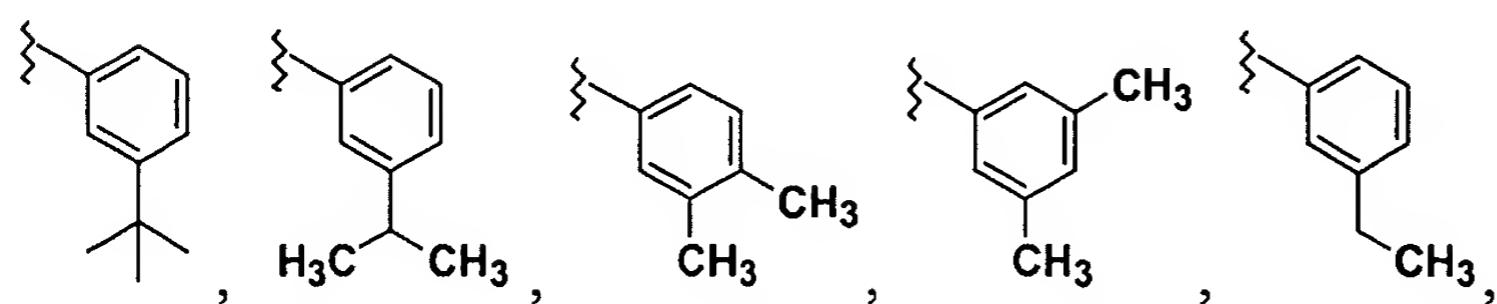
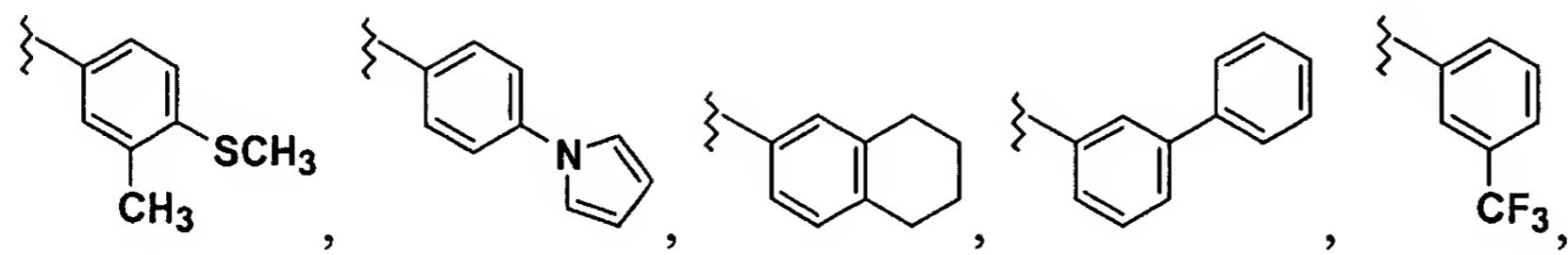
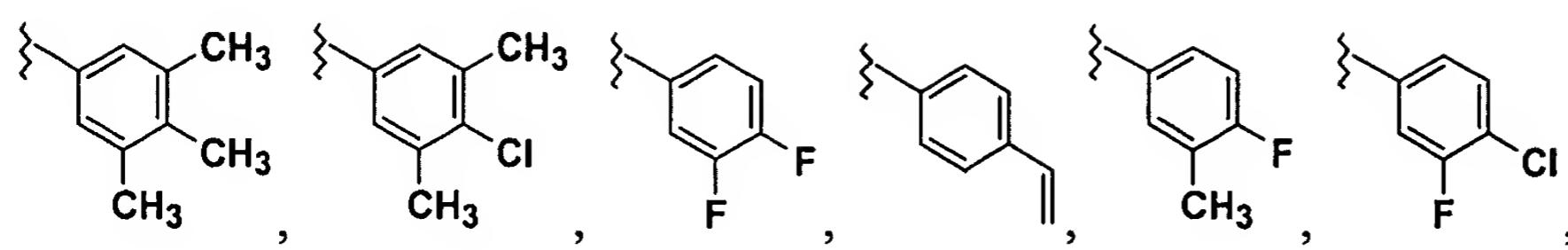
,

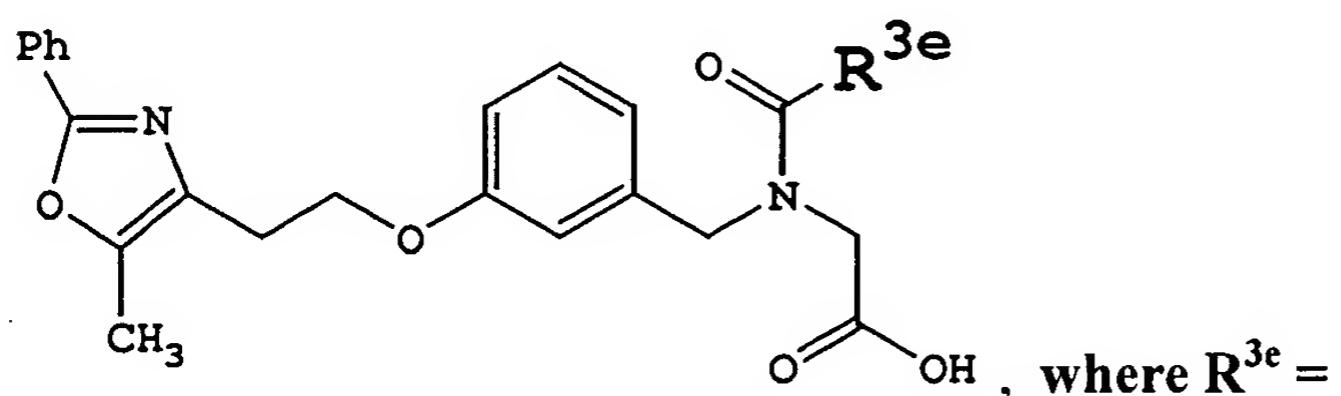
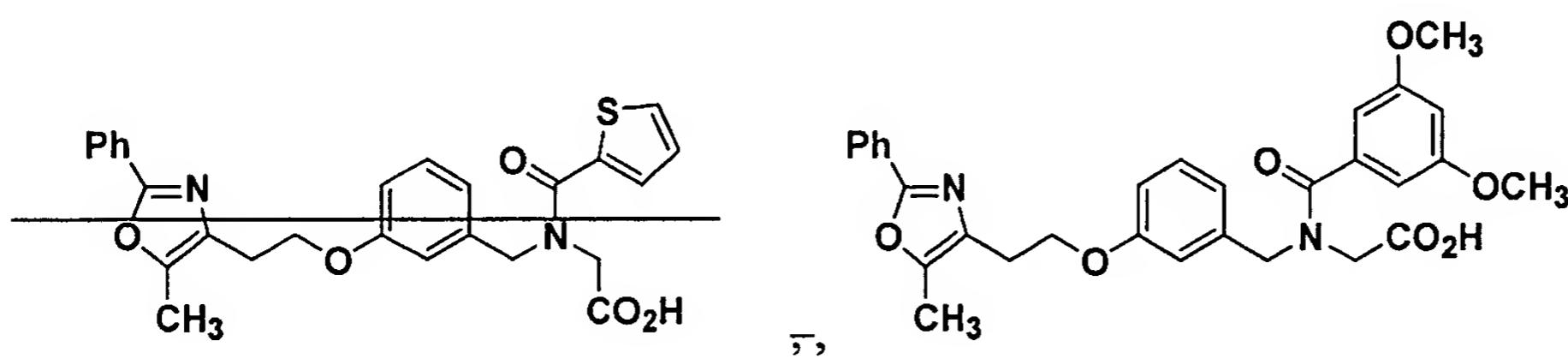
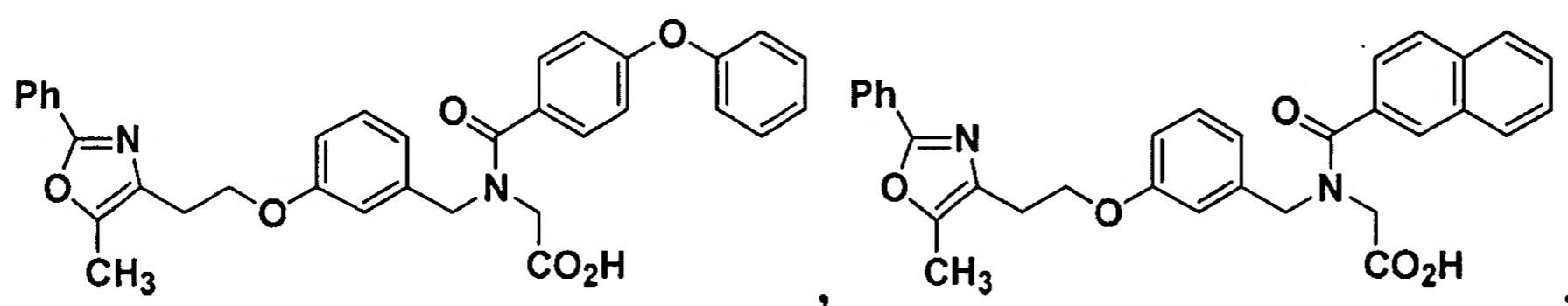
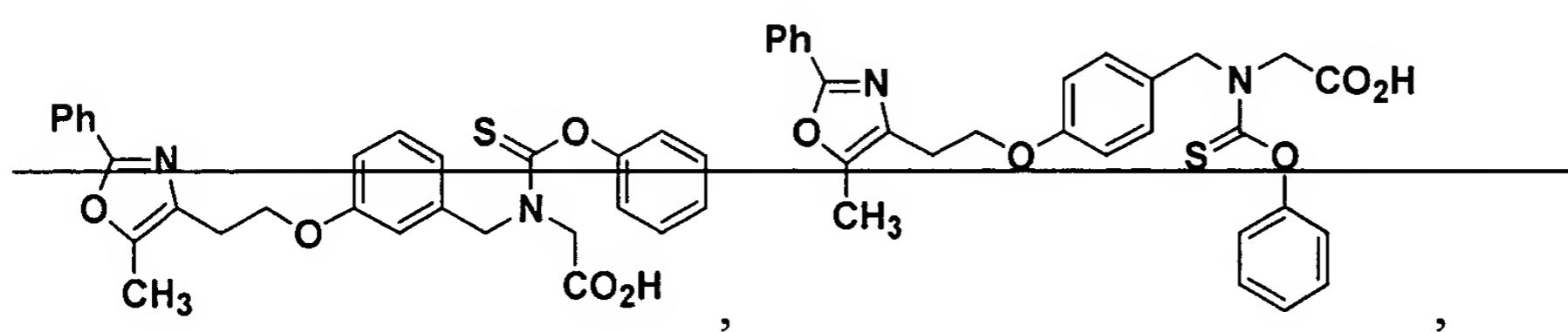
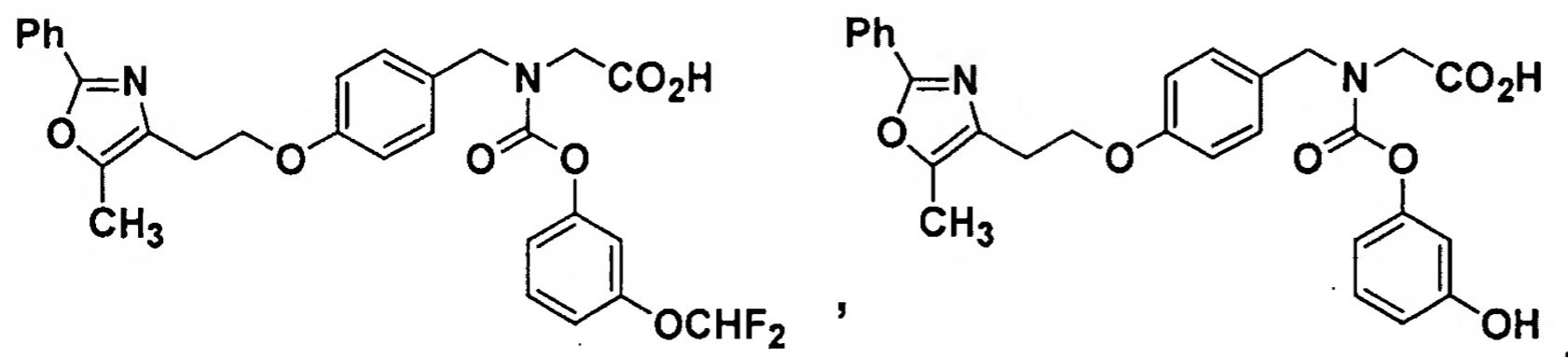
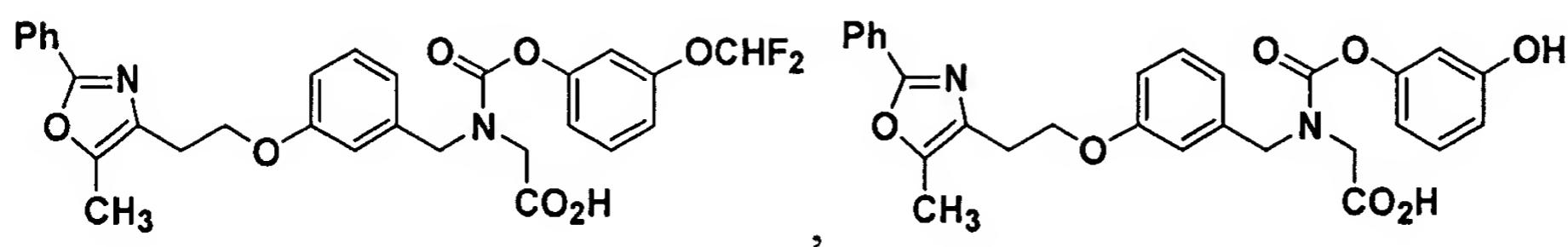


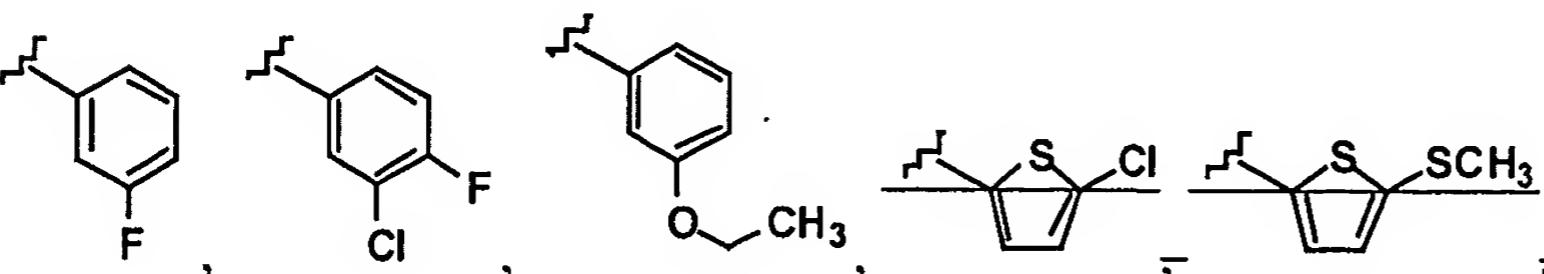
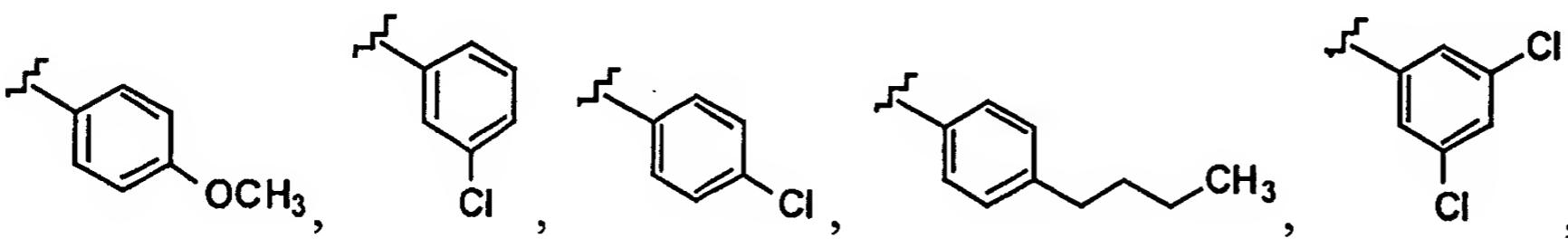
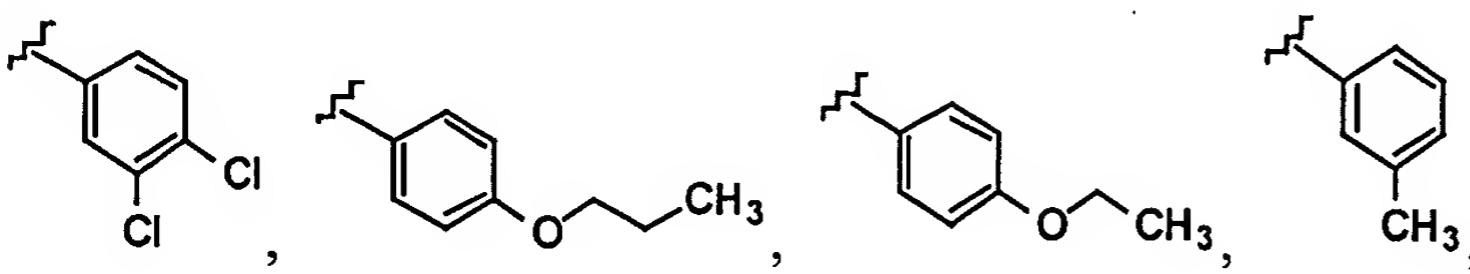
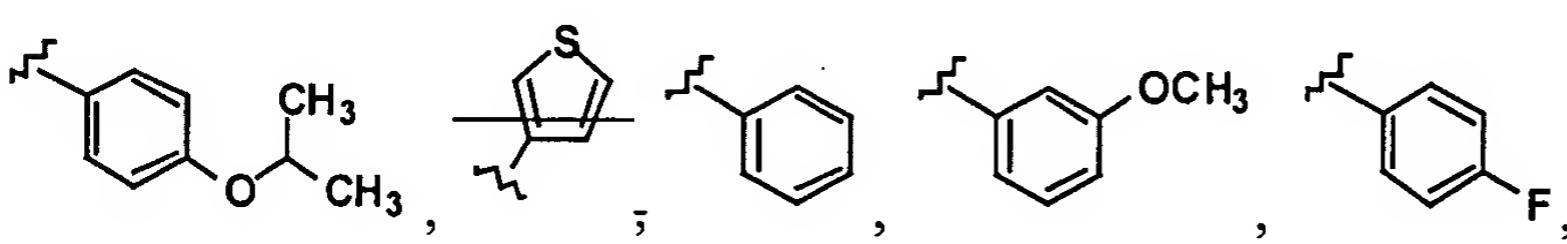
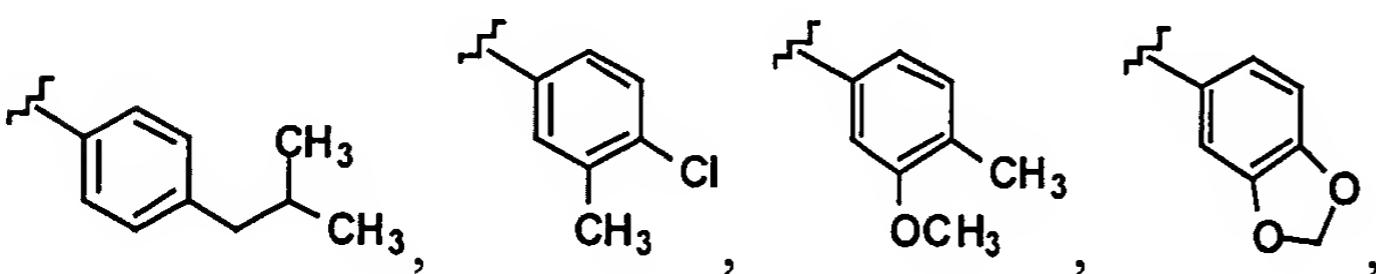
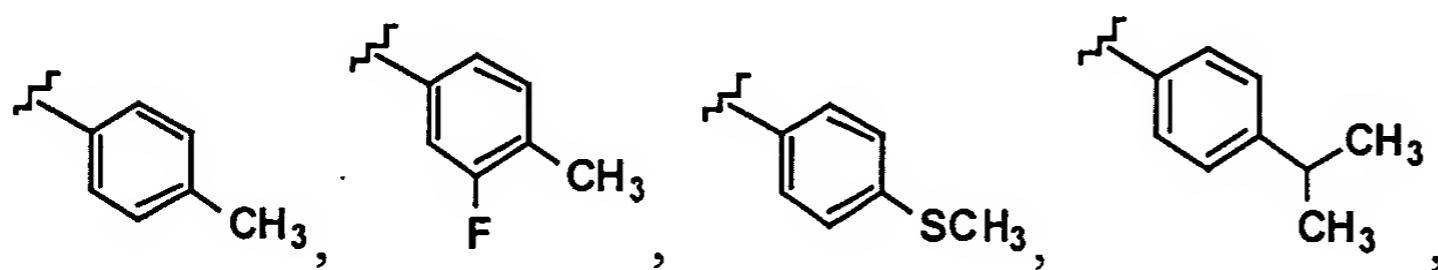
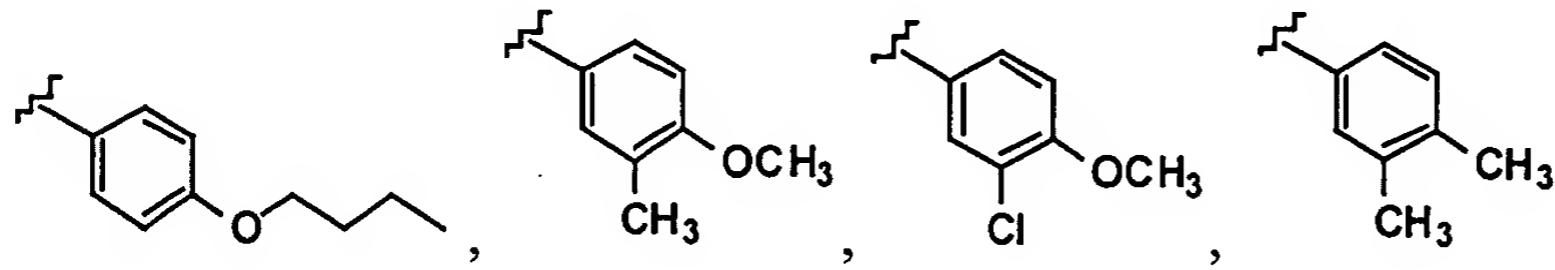
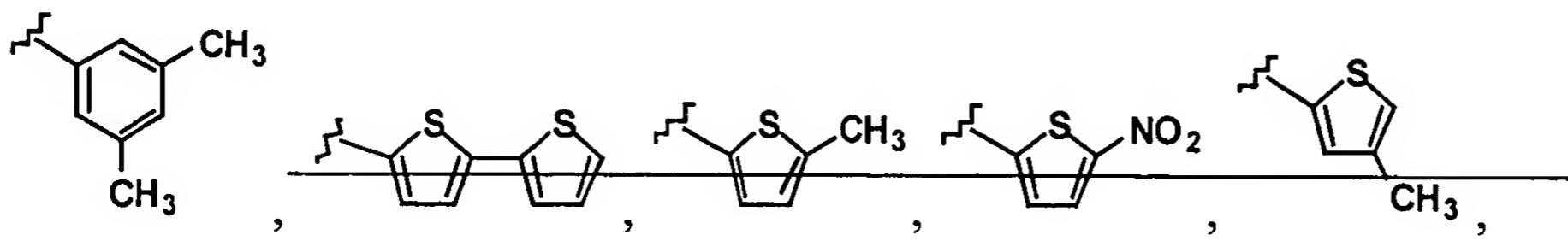
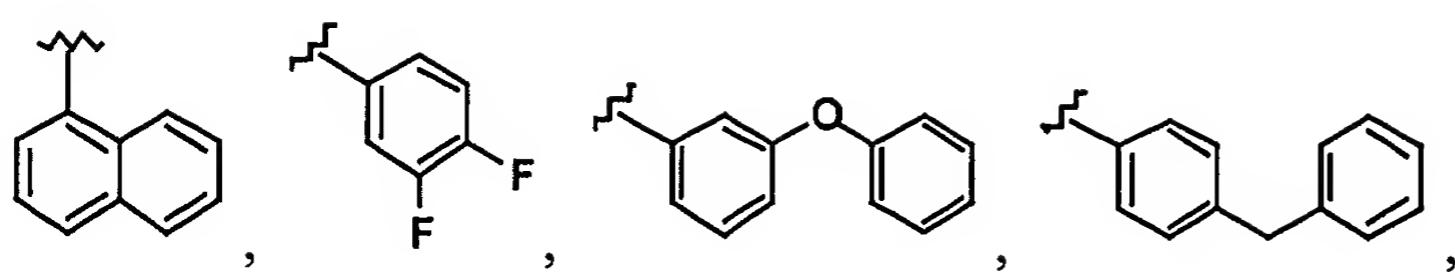


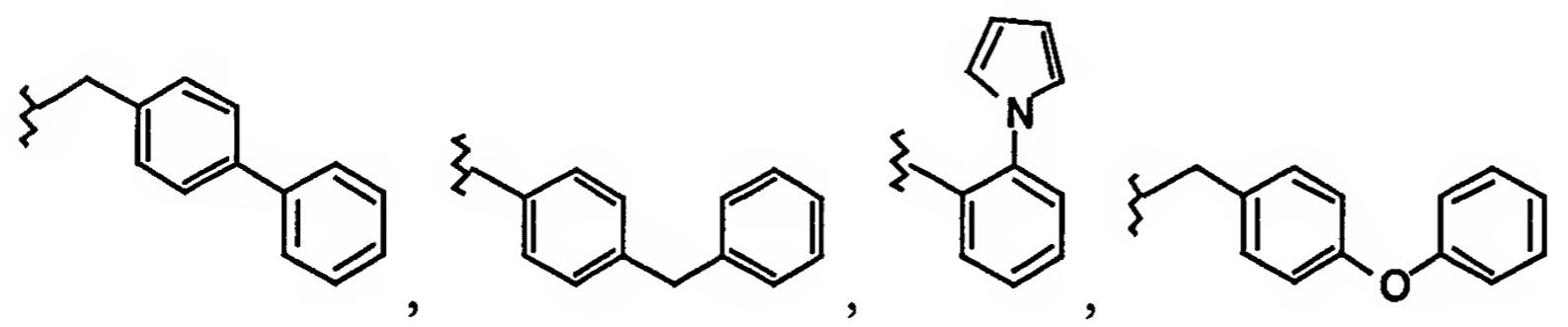
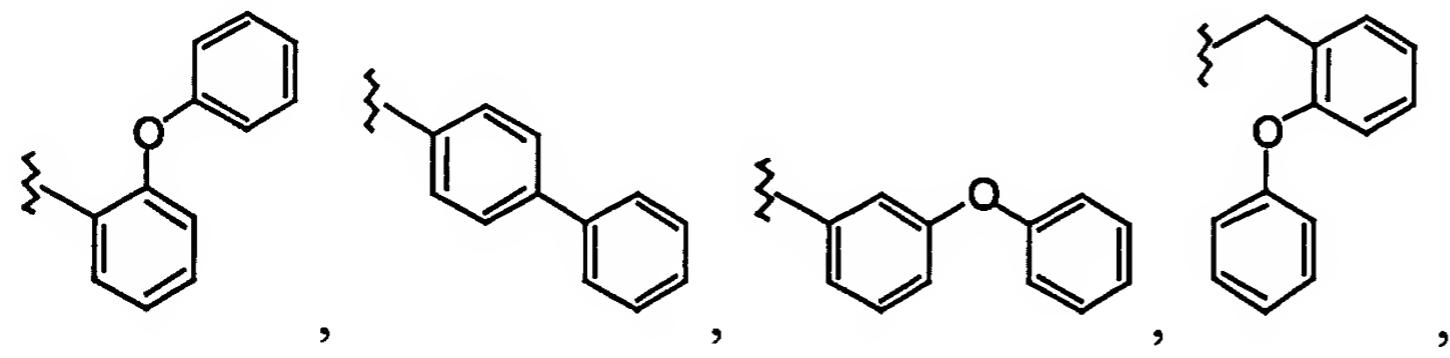
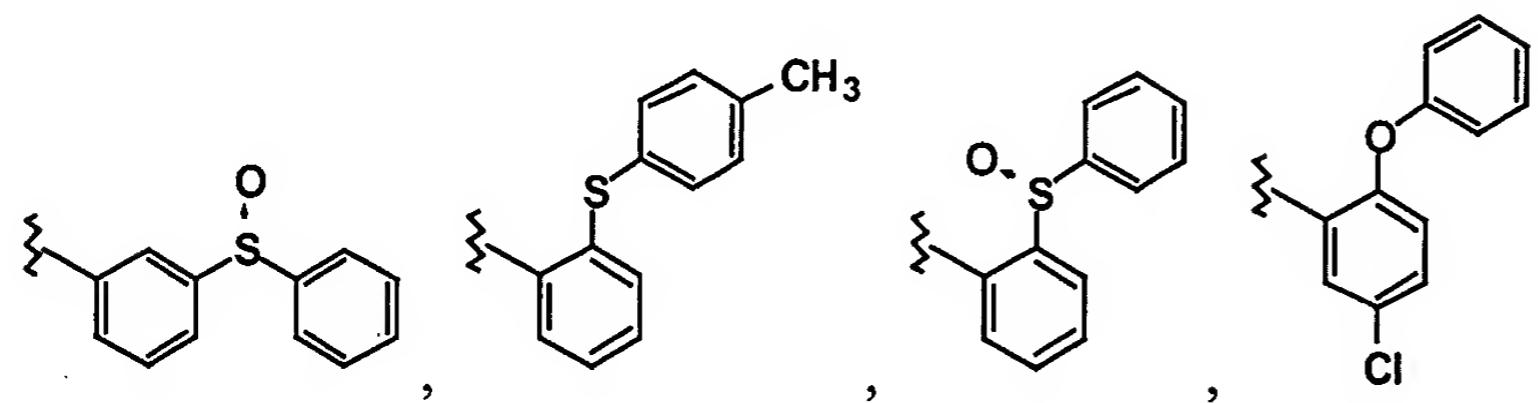
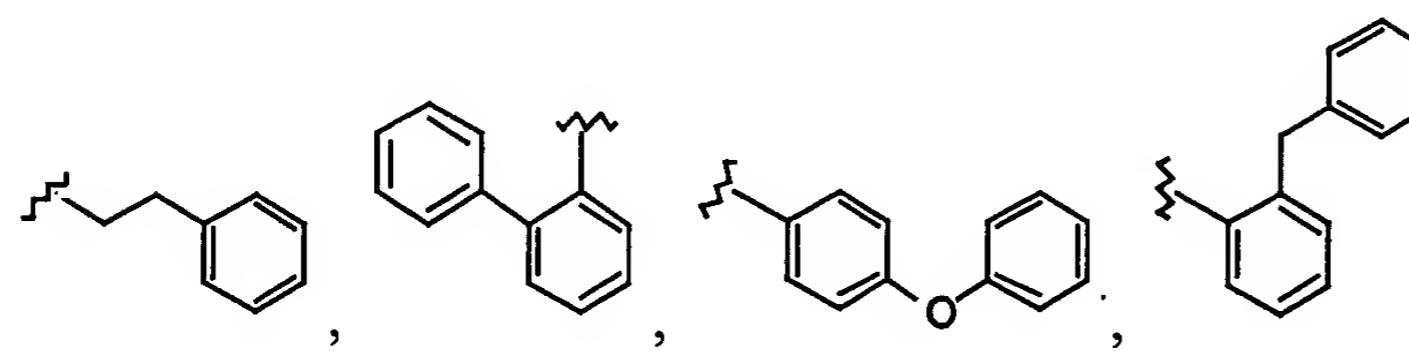
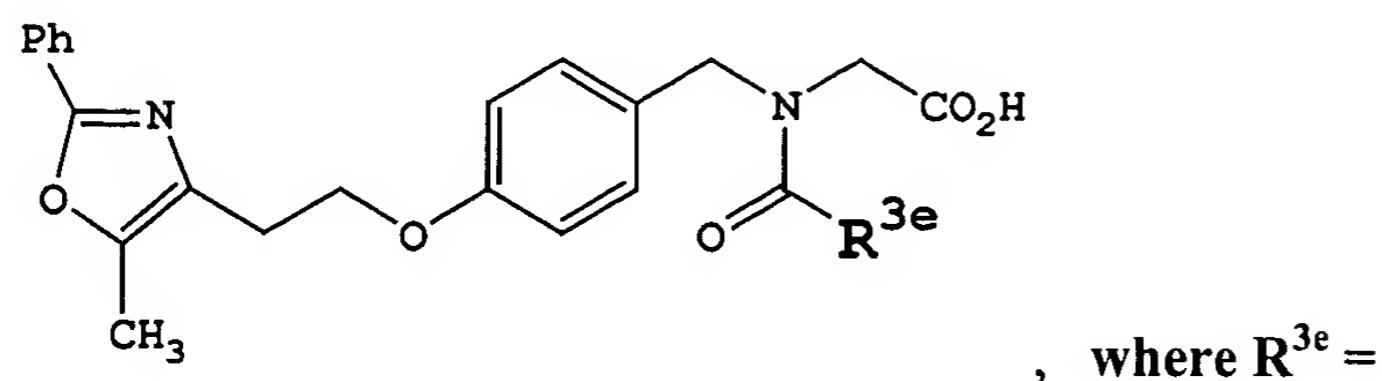
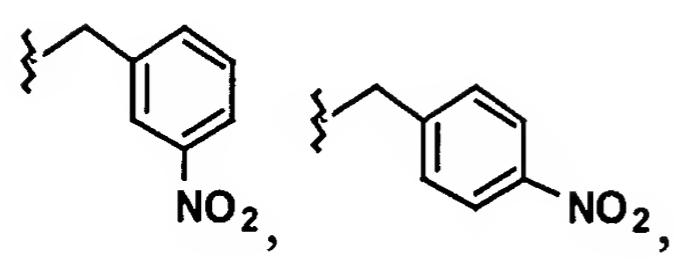
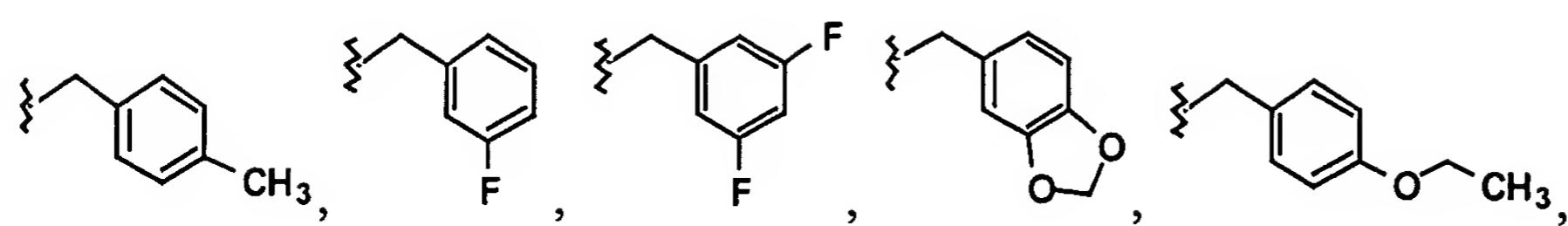


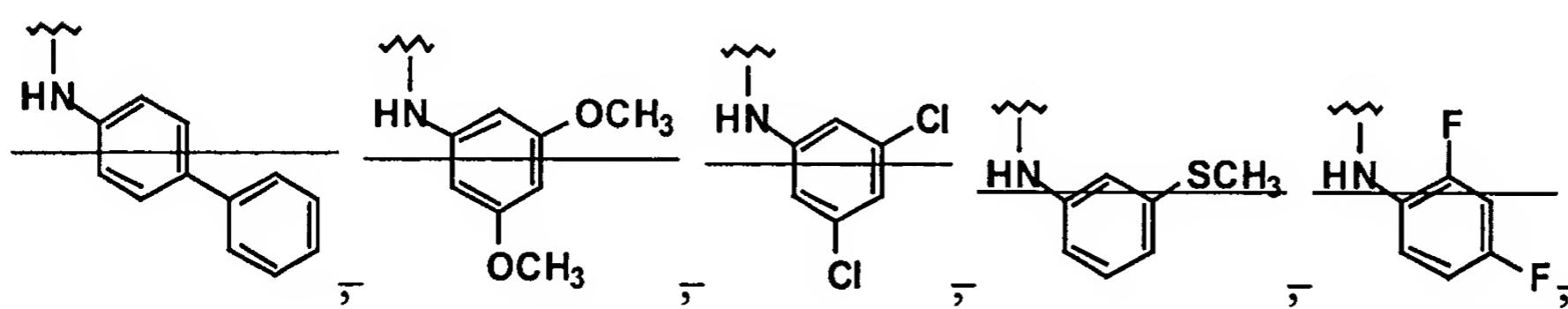
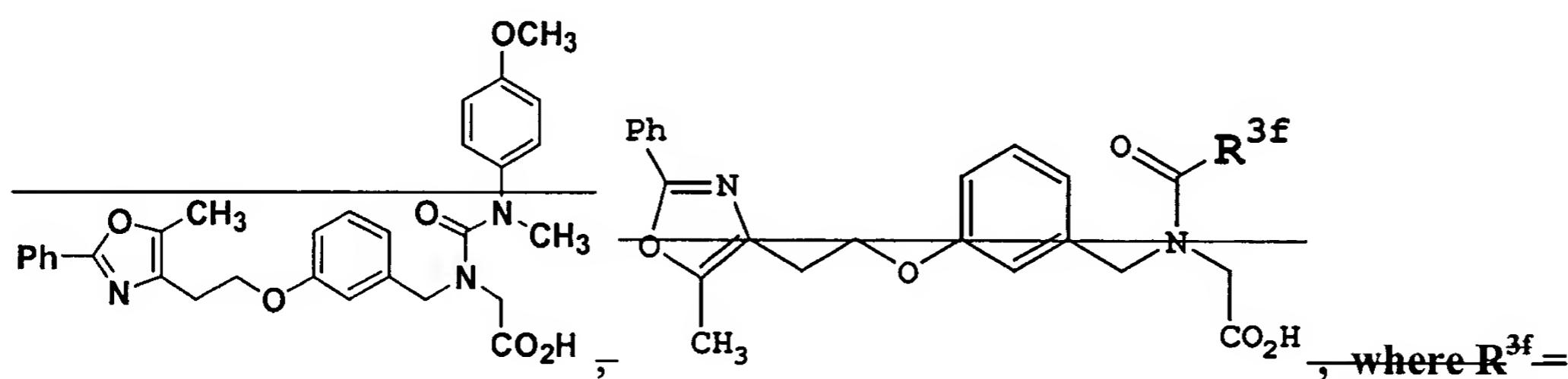
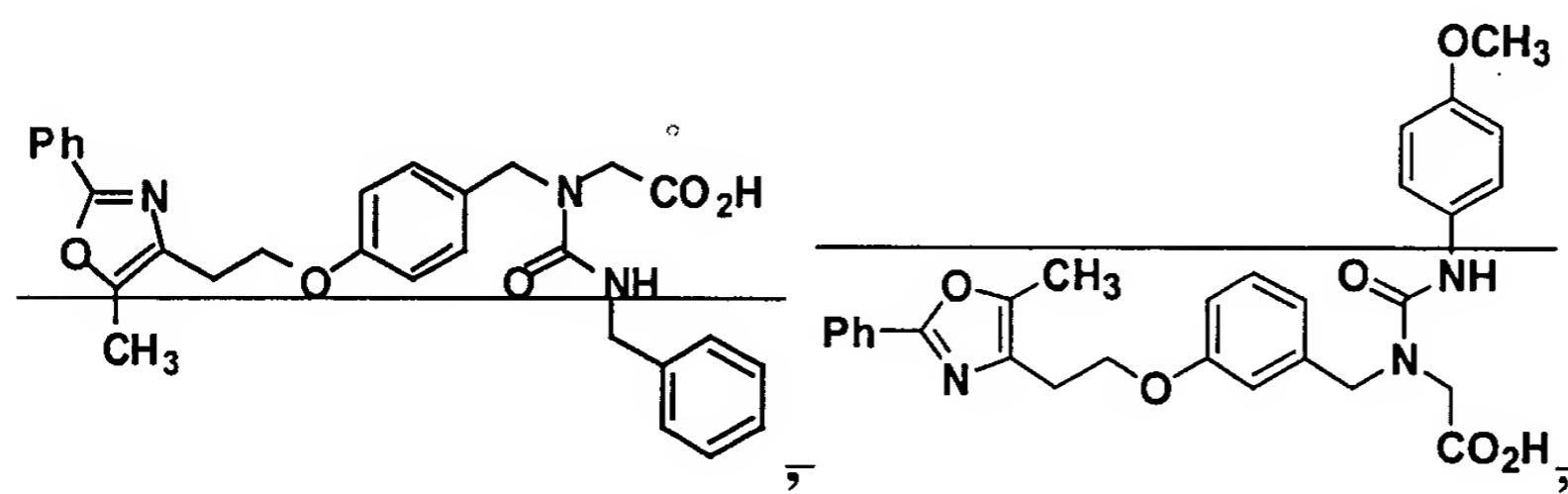
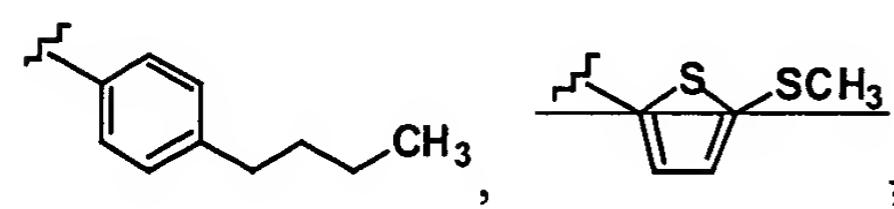
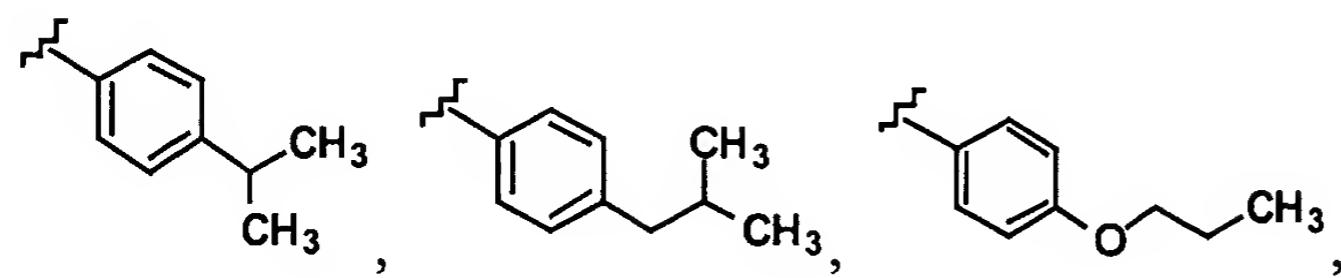
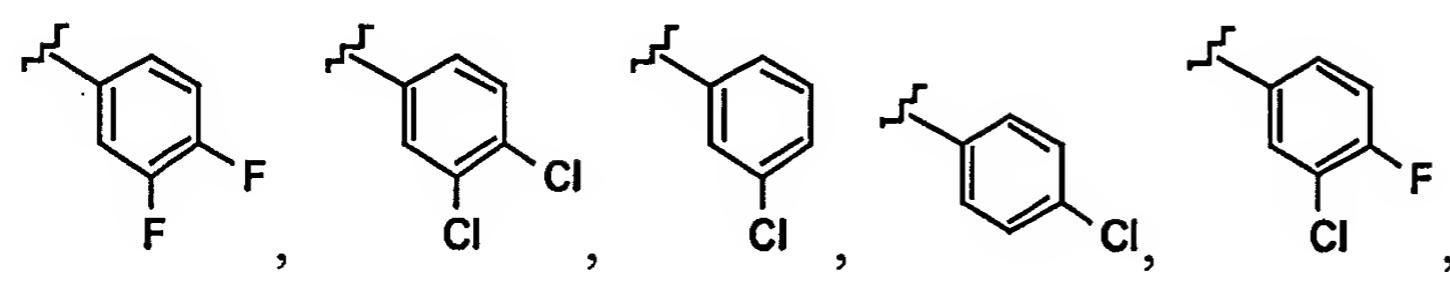
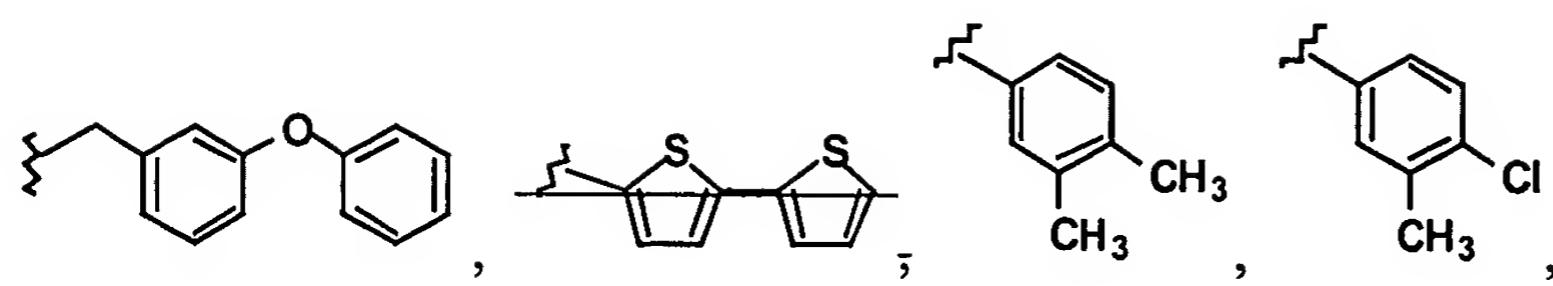


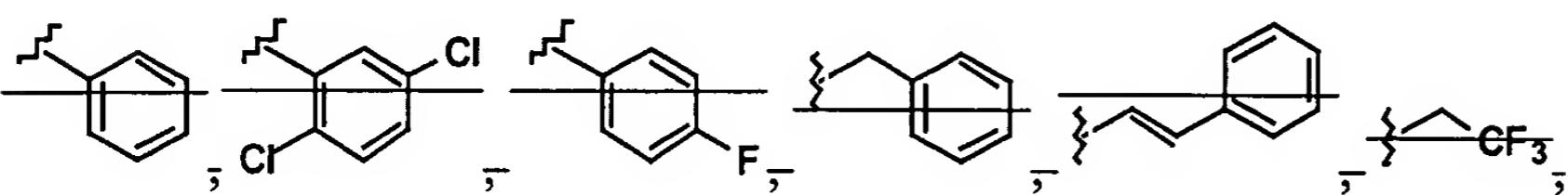
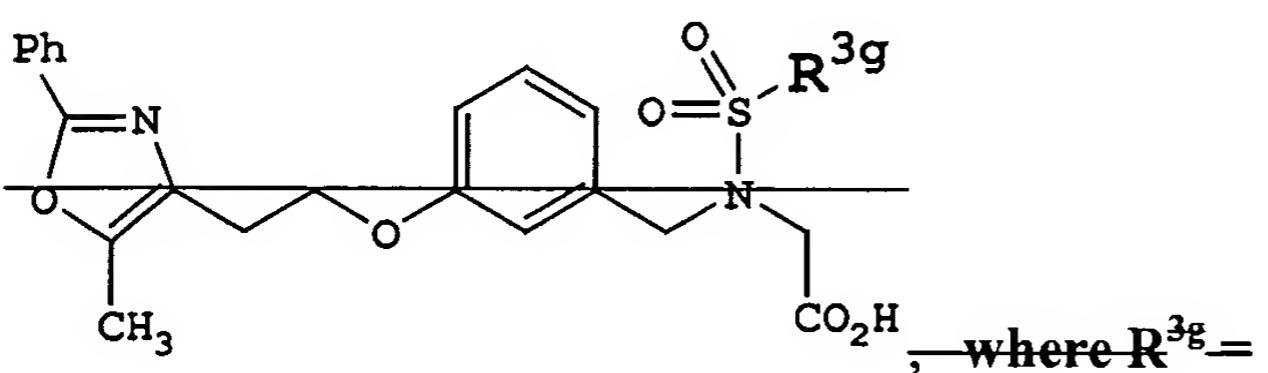
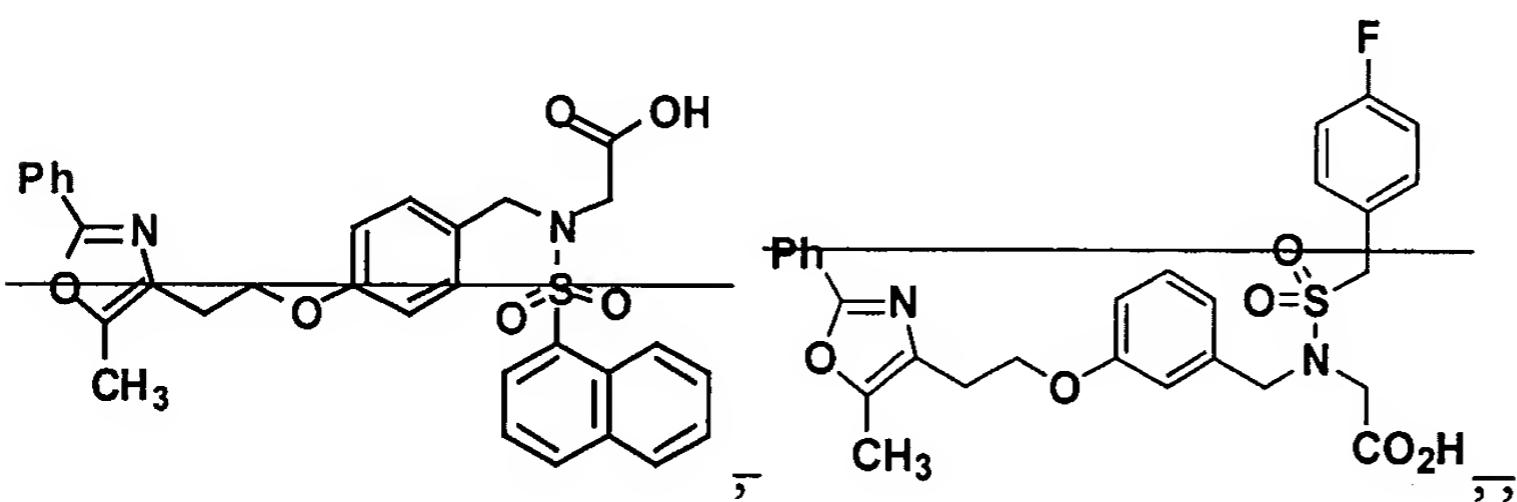
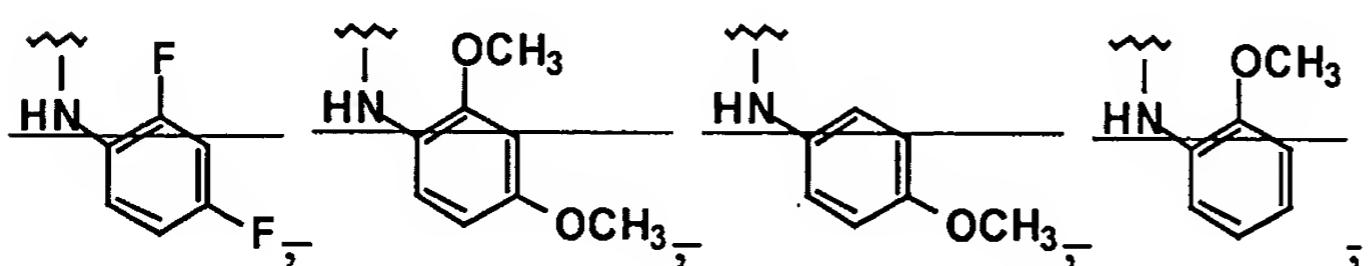
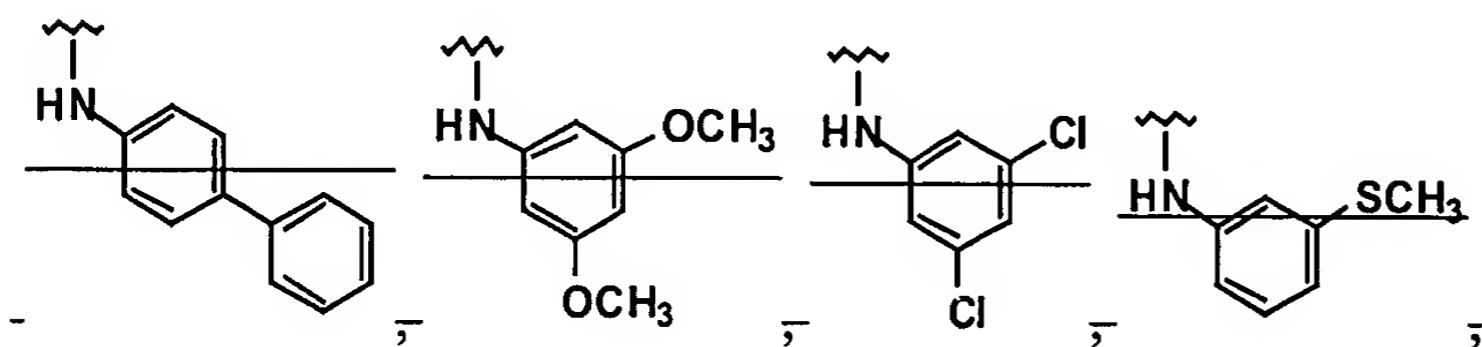
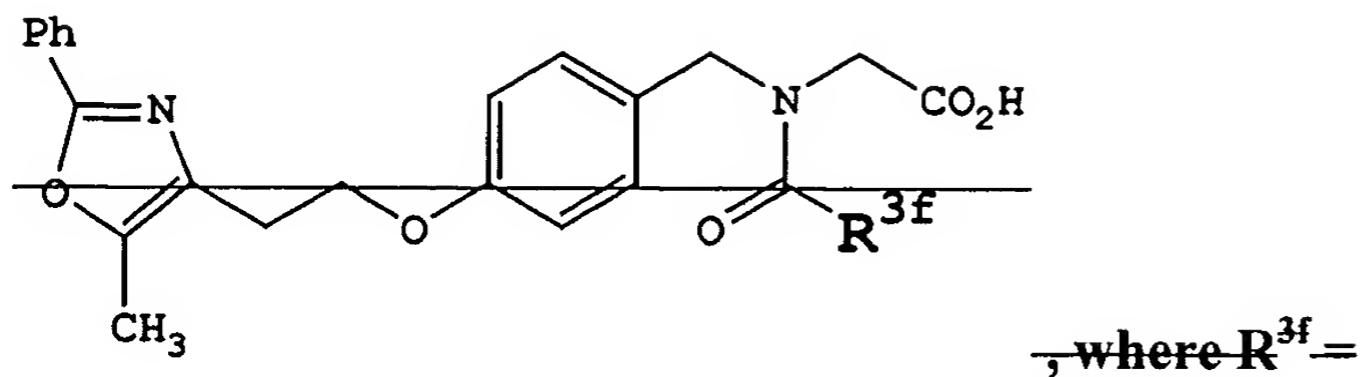
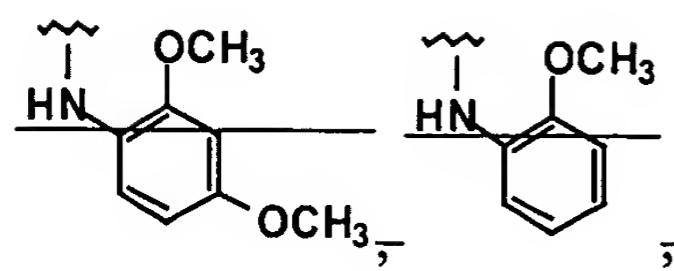


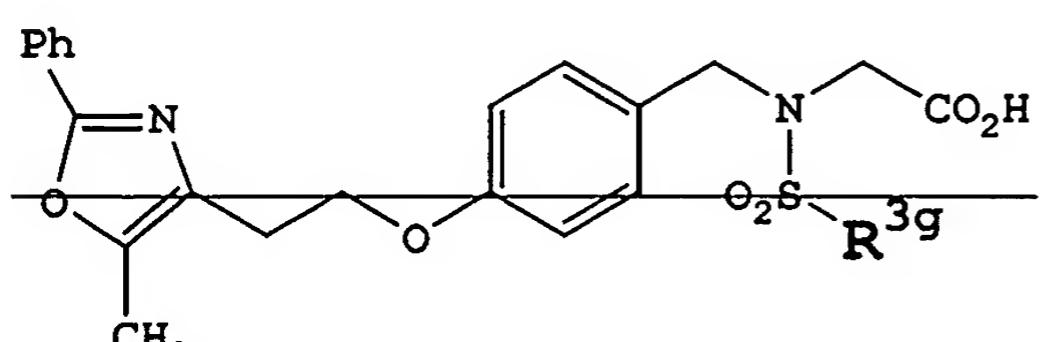
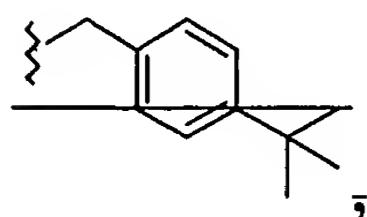
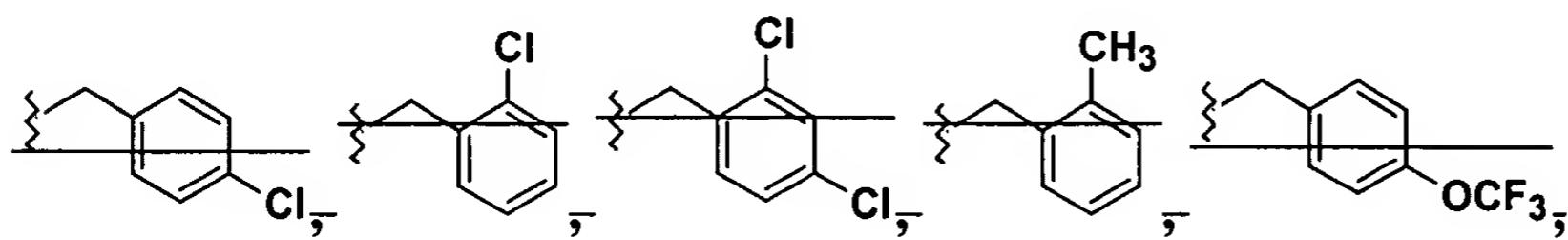
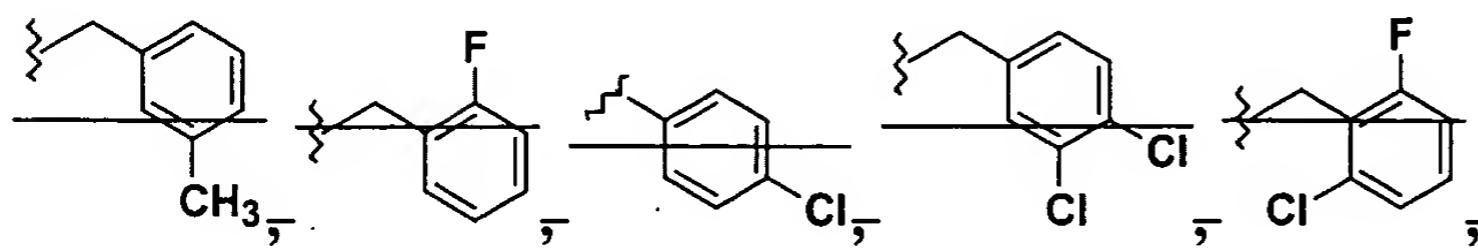
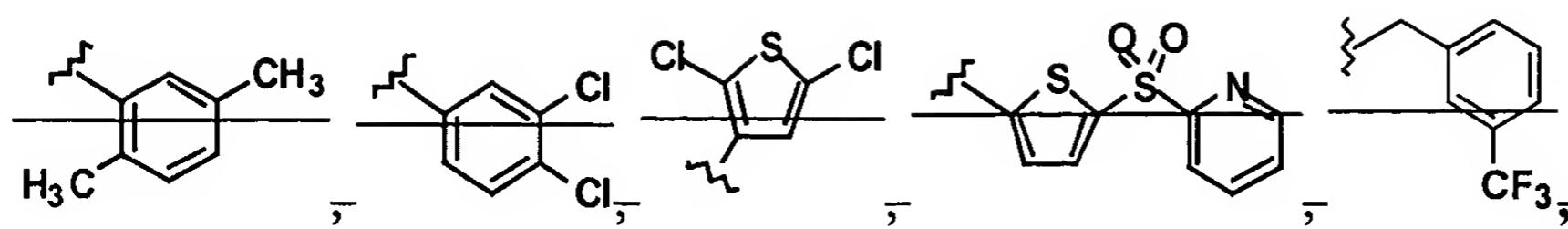




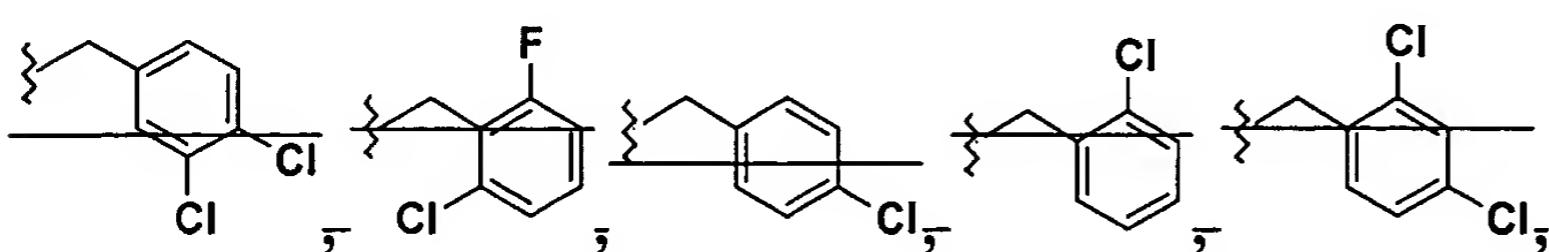
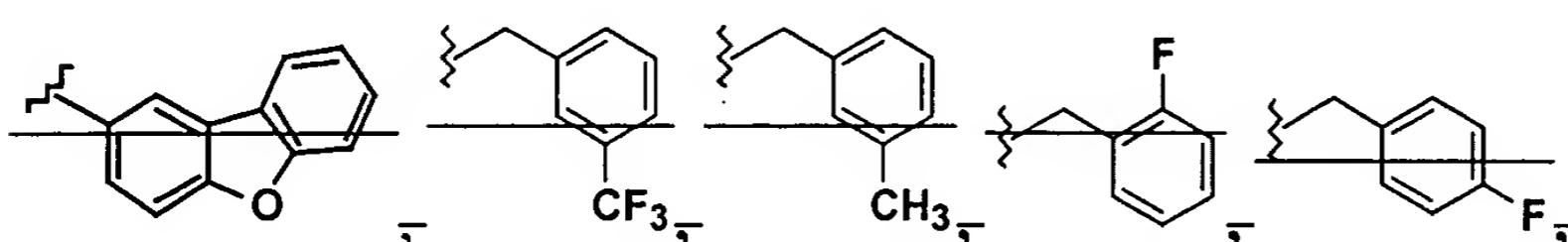
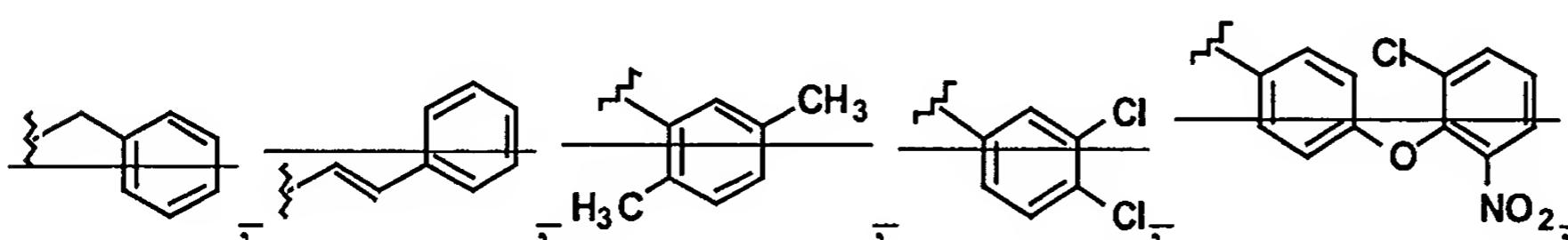
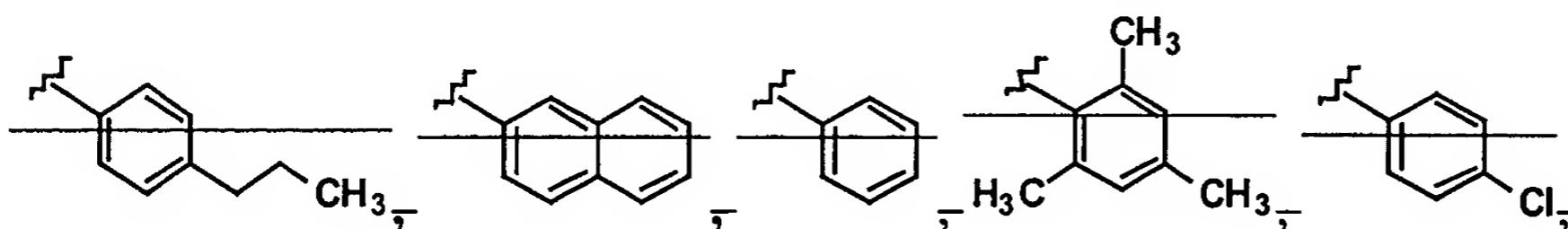


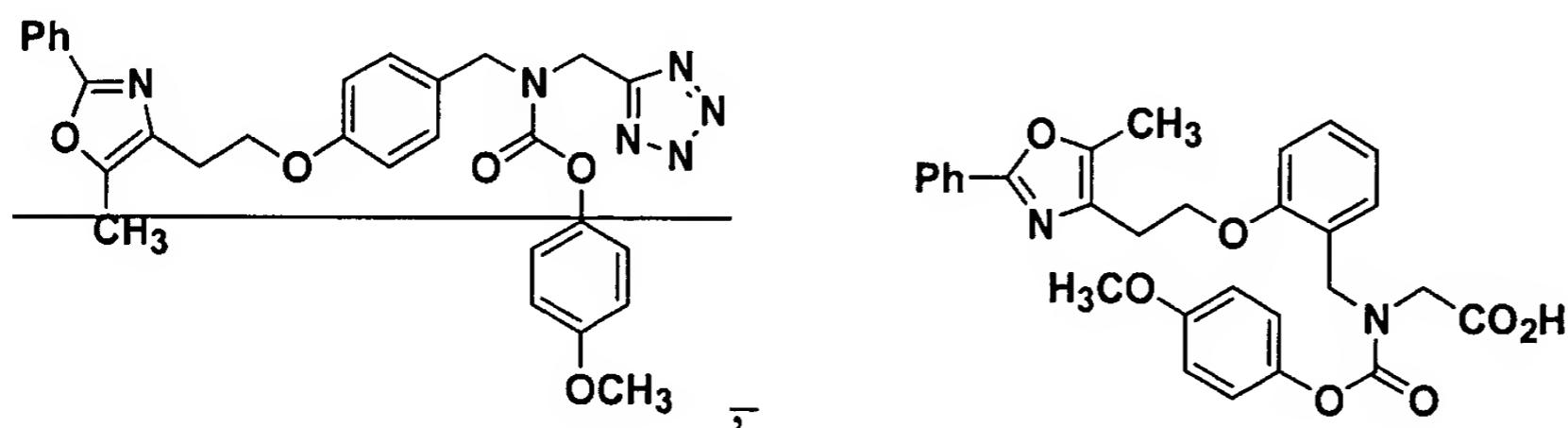
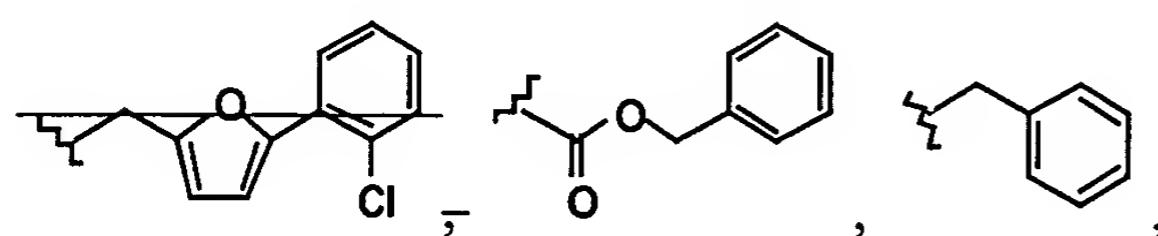
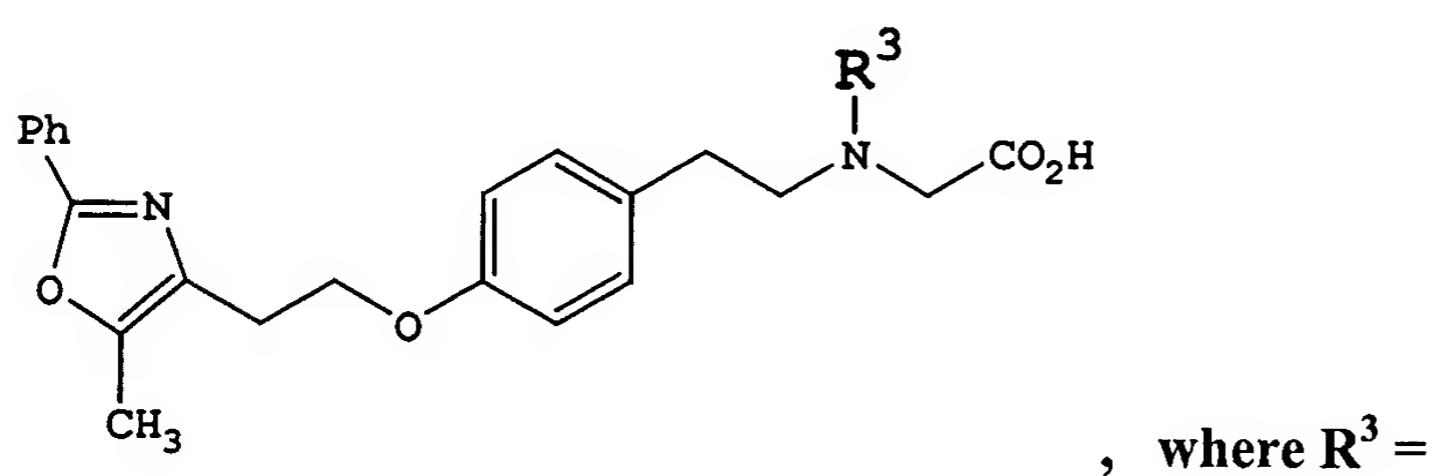
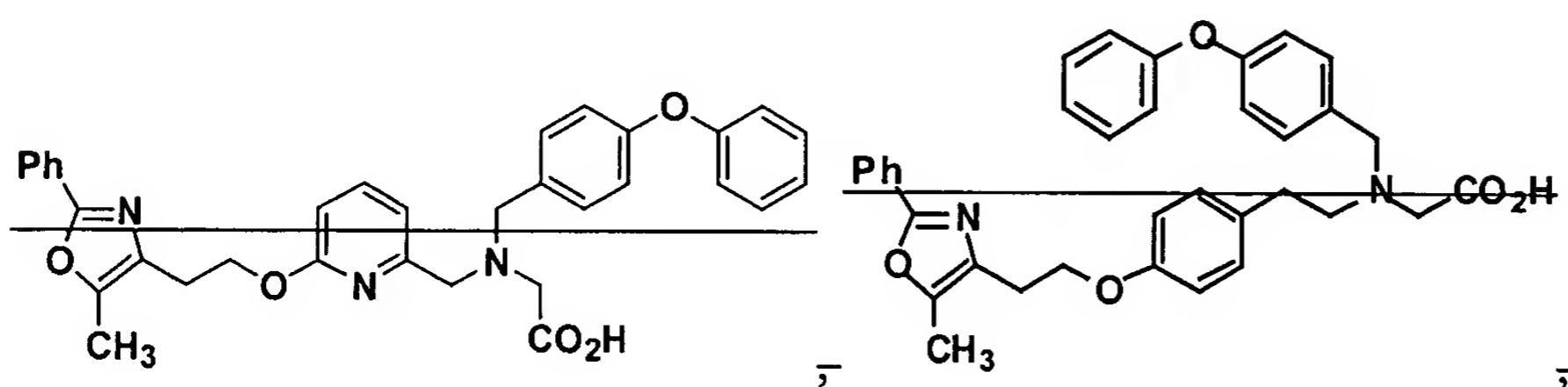
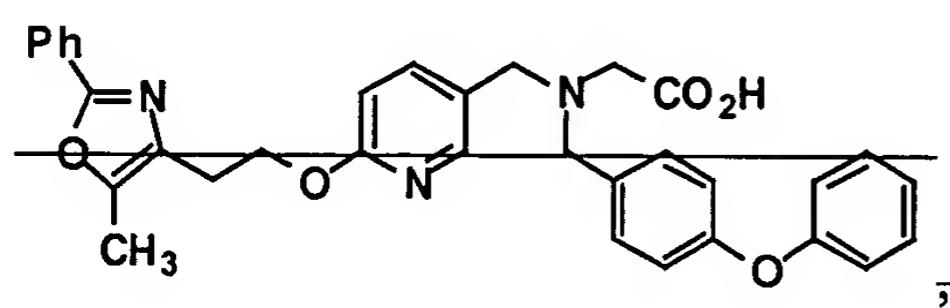
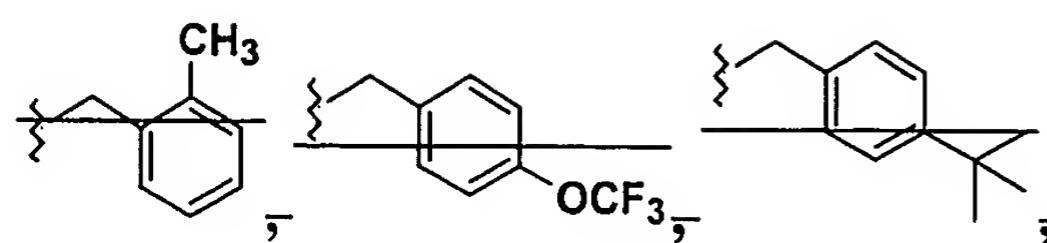


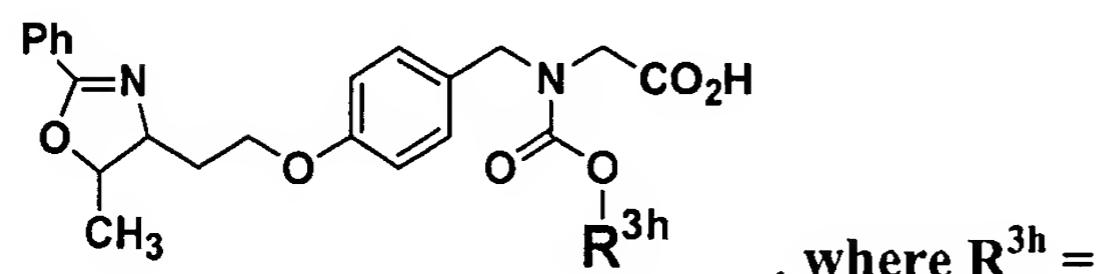
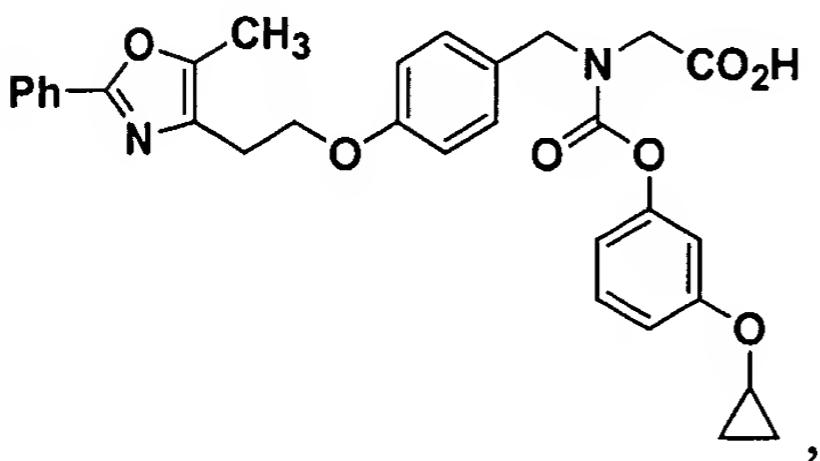
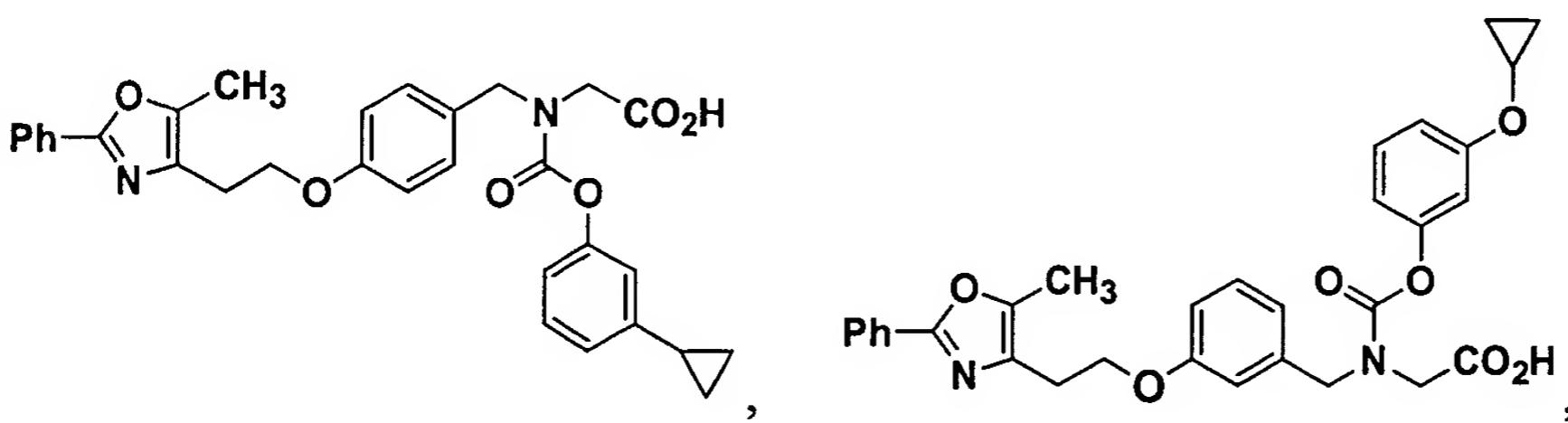
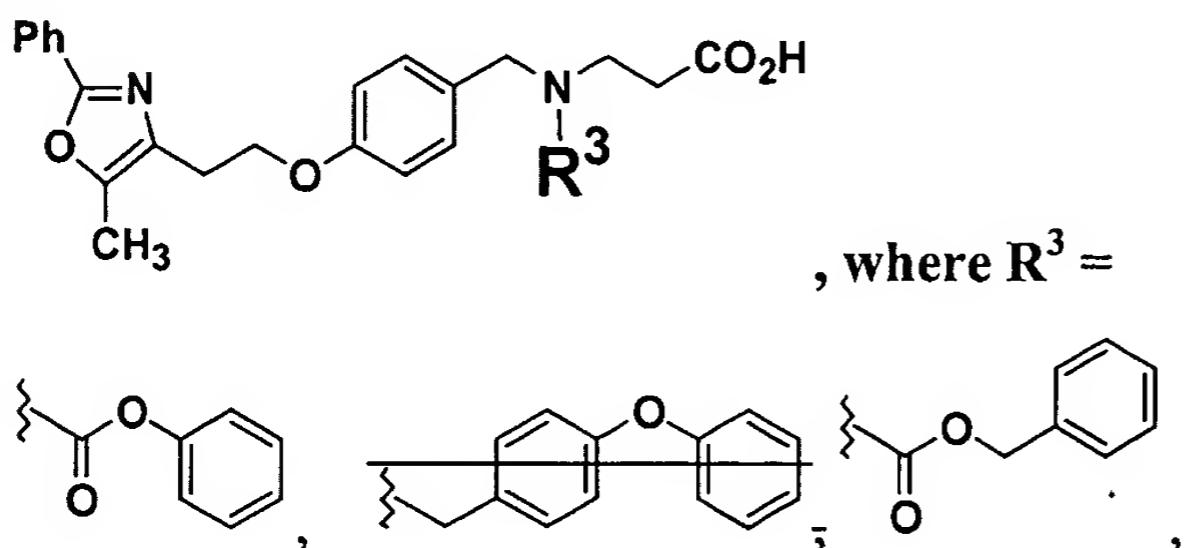
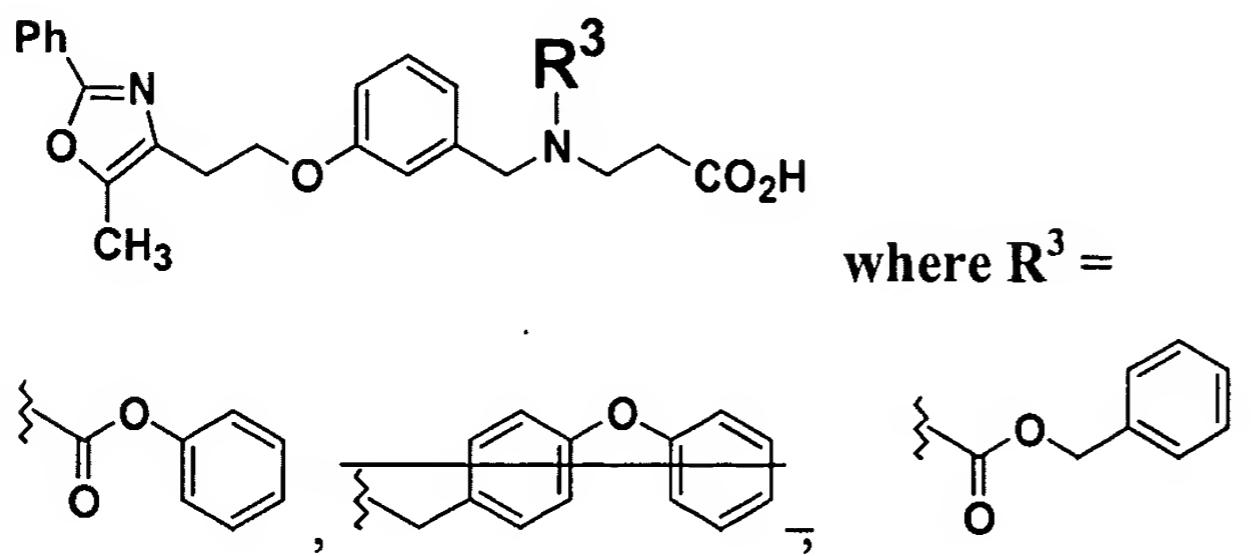
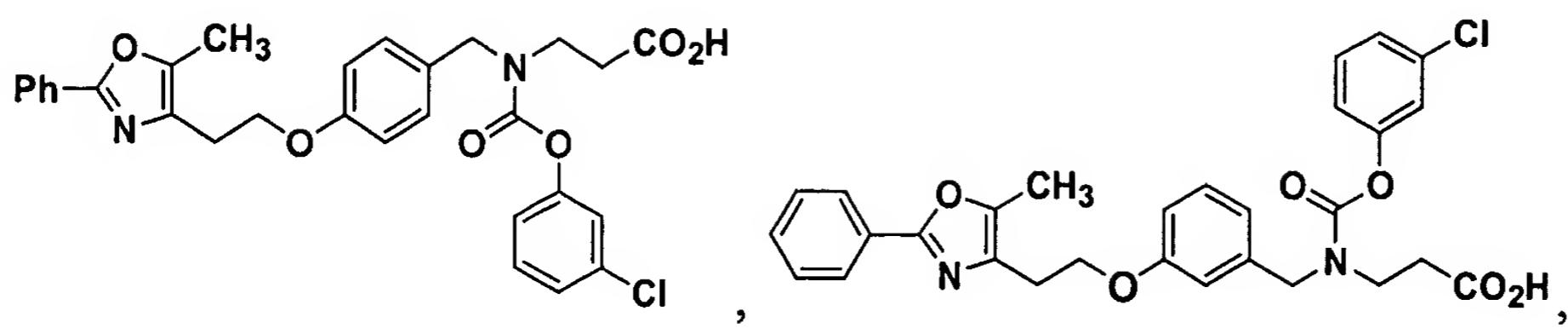


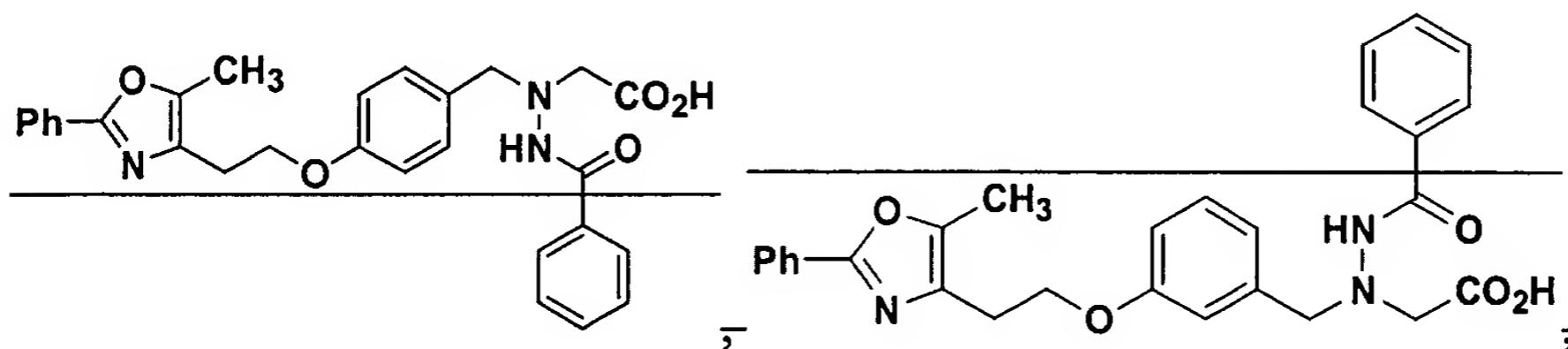
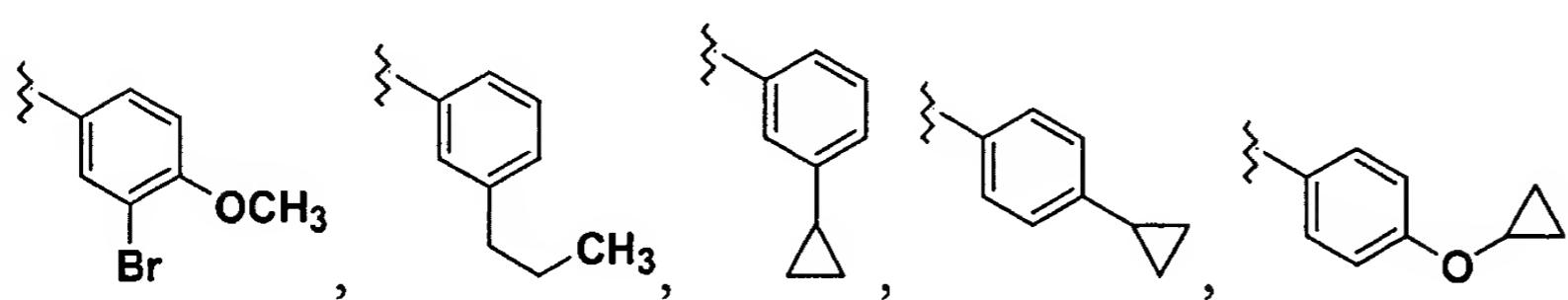
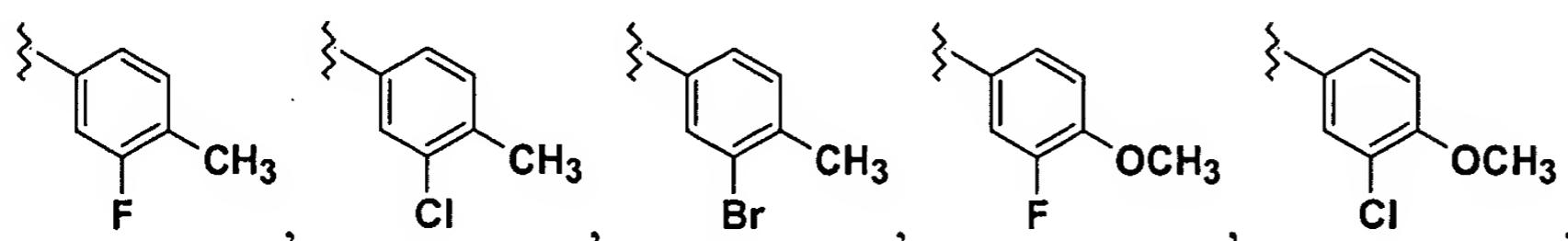
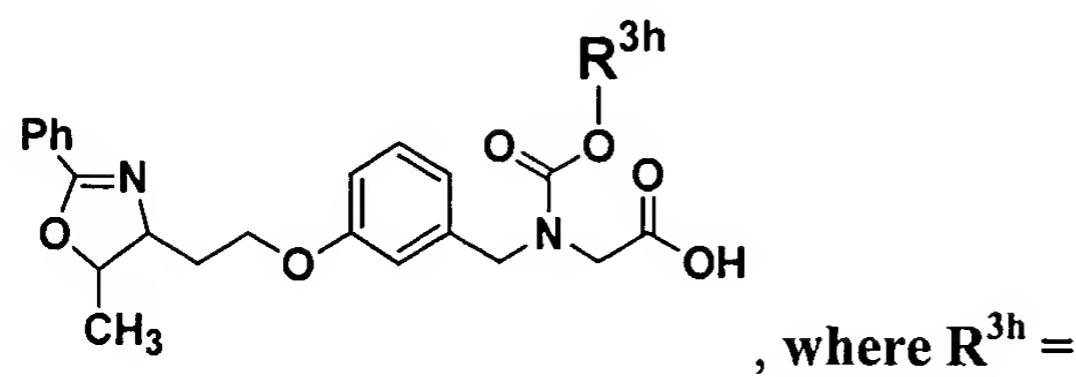
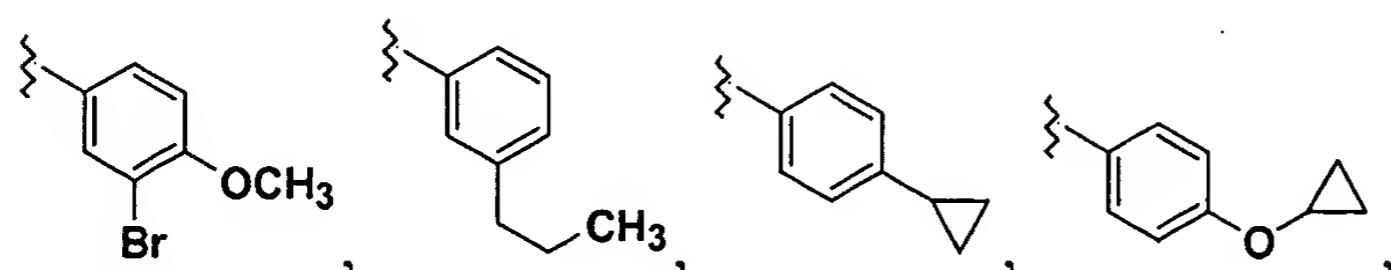
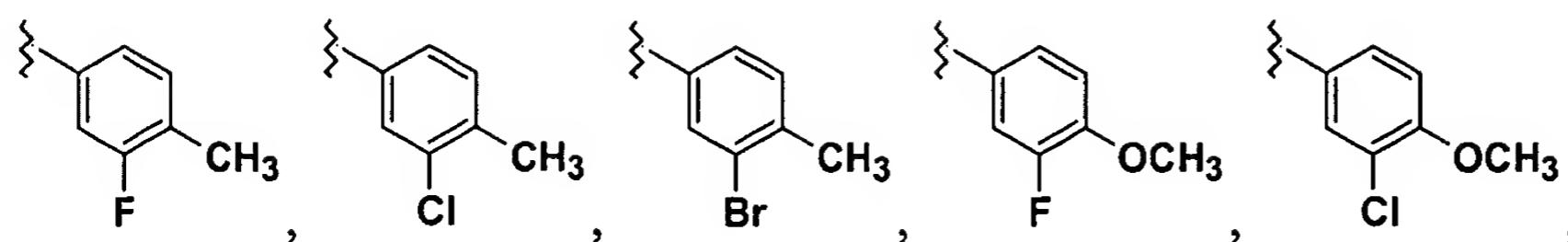


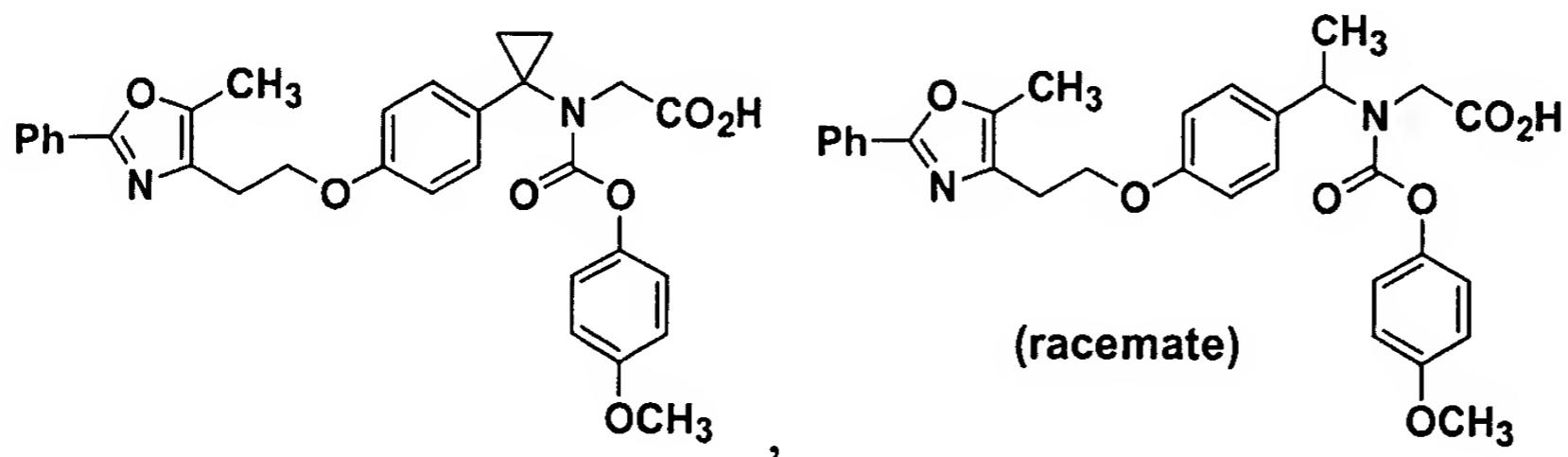
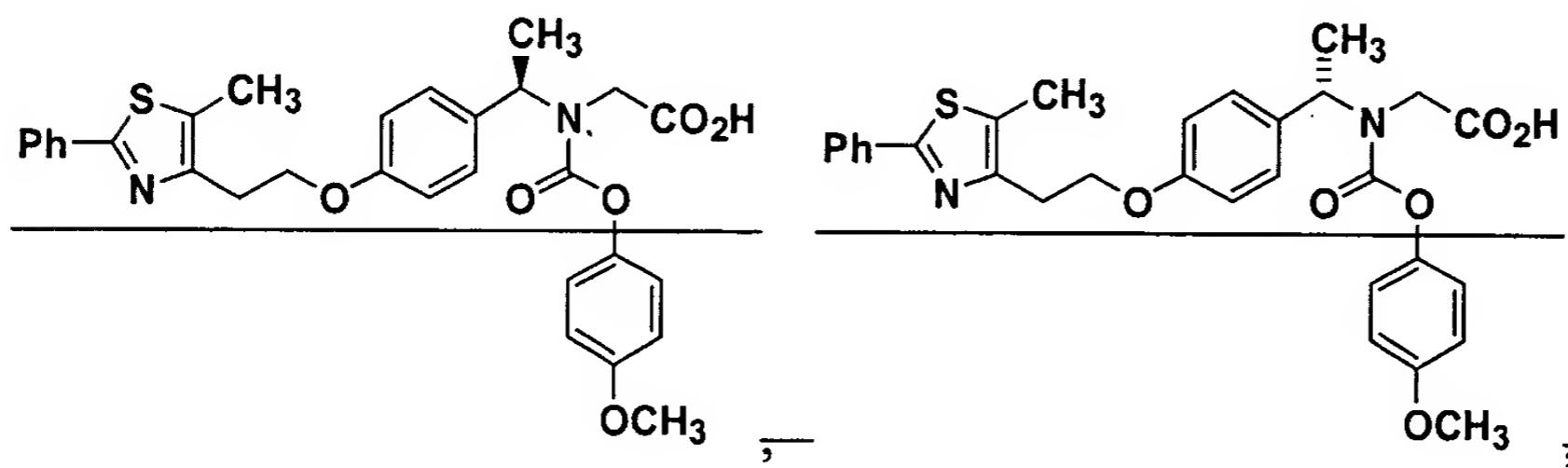
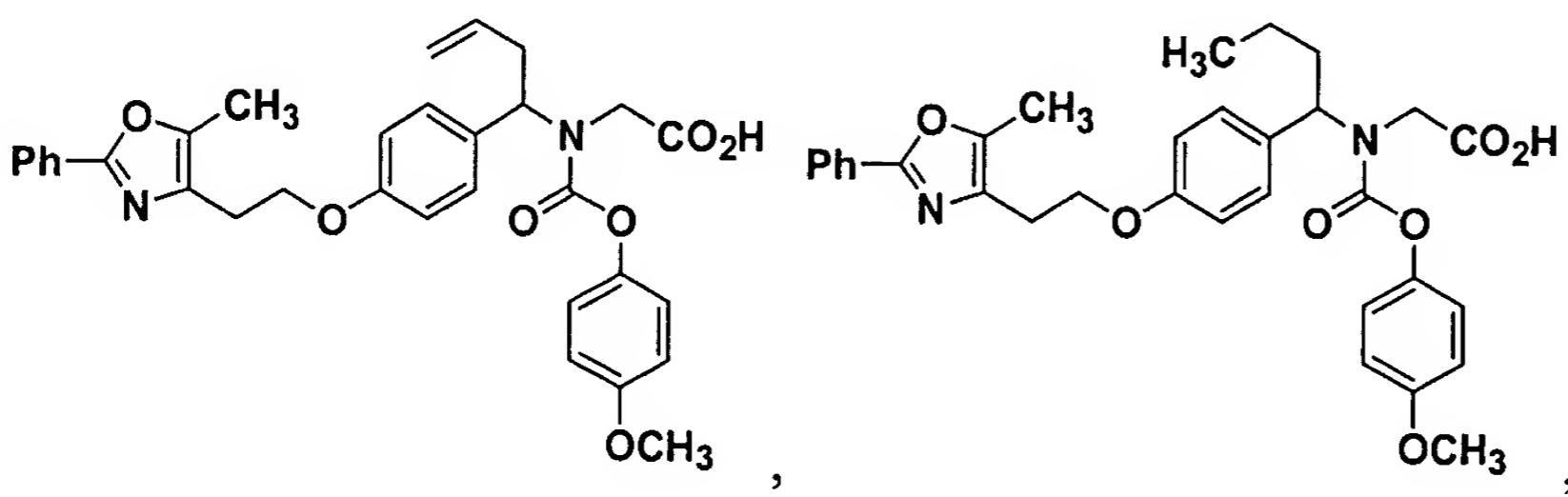
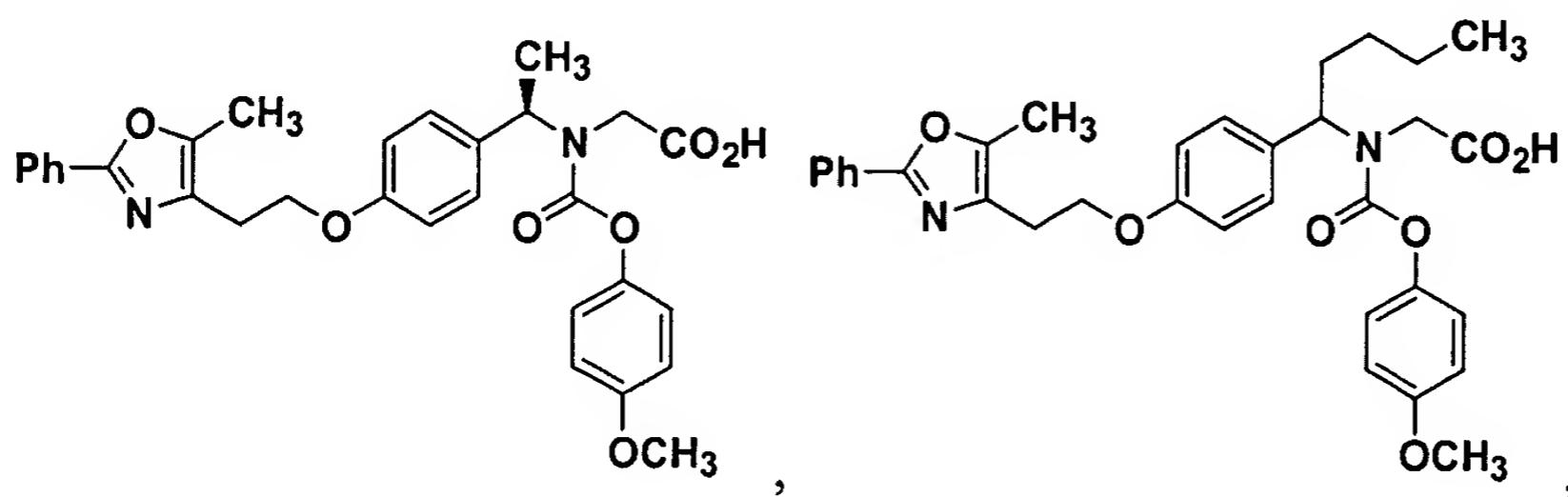
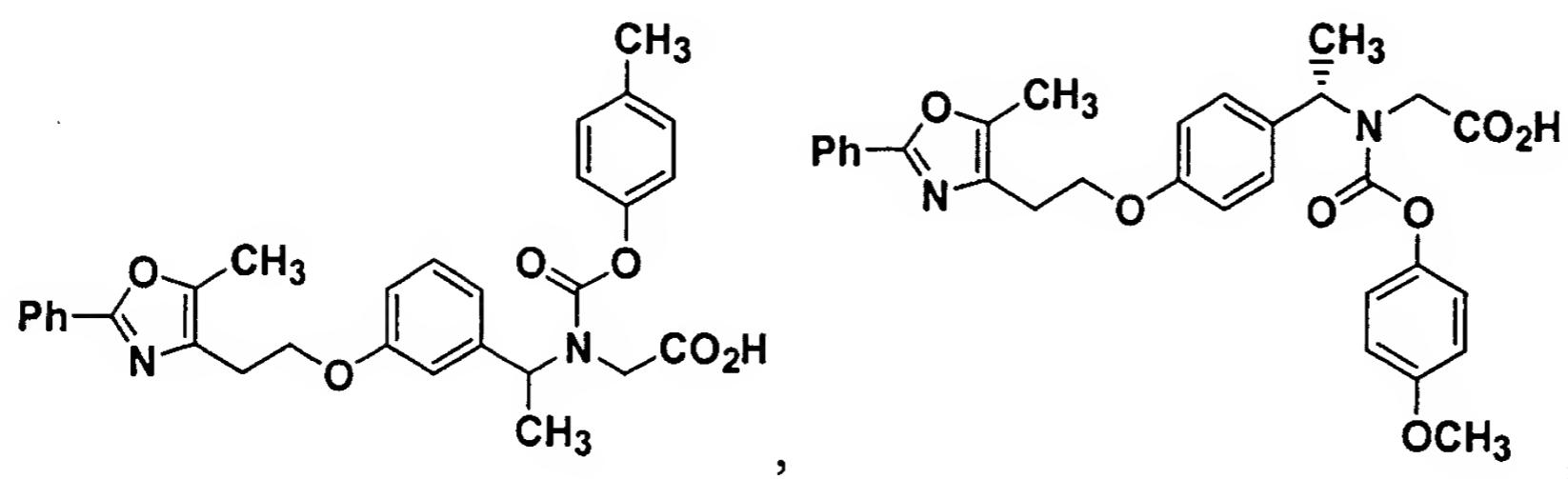
—where R<sup>3g</sup> =

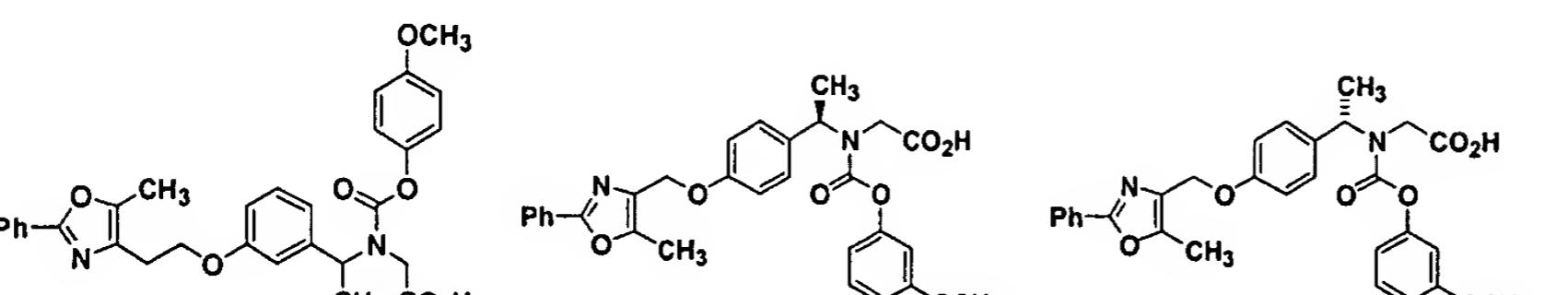
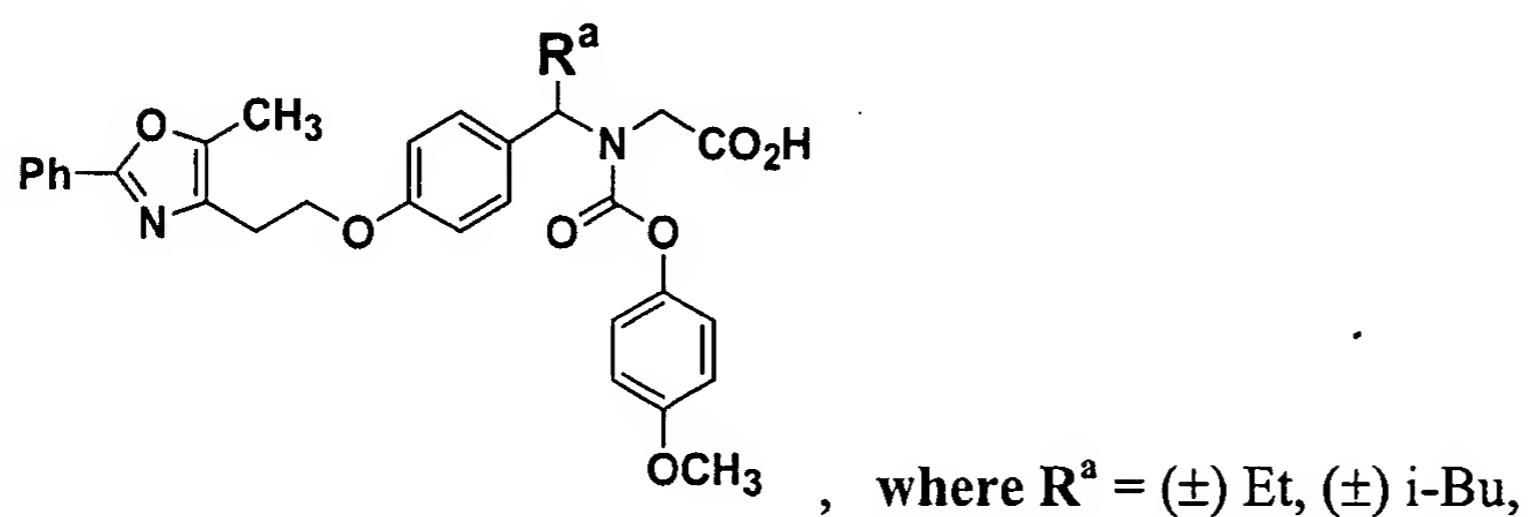
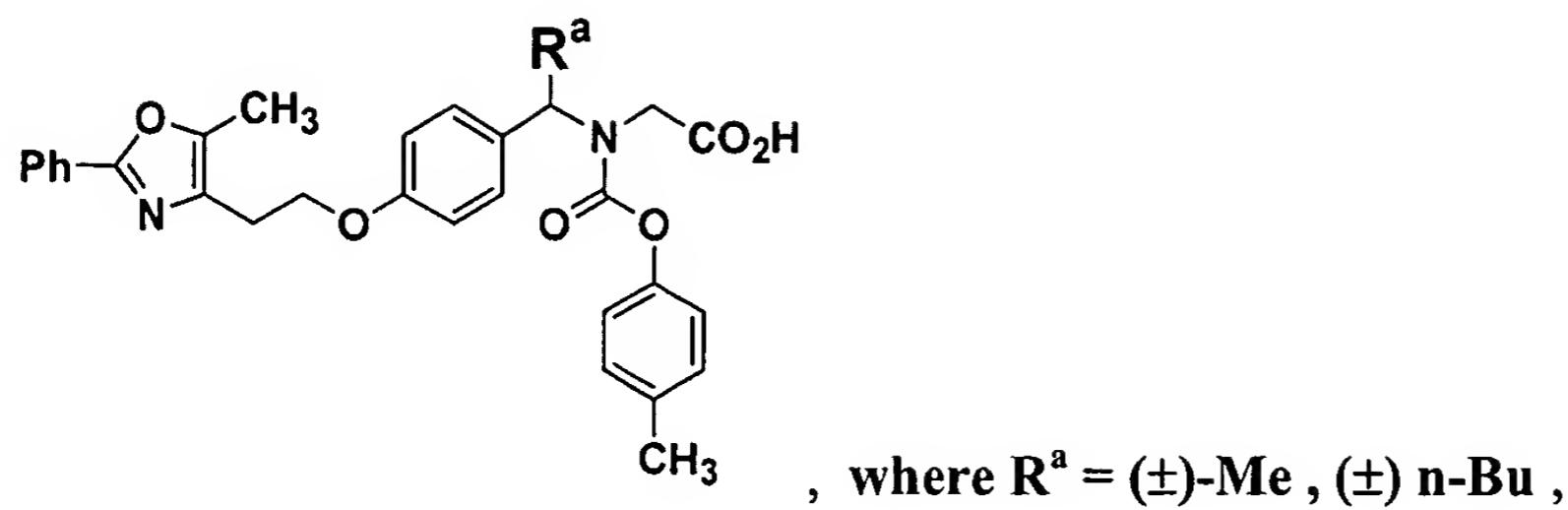




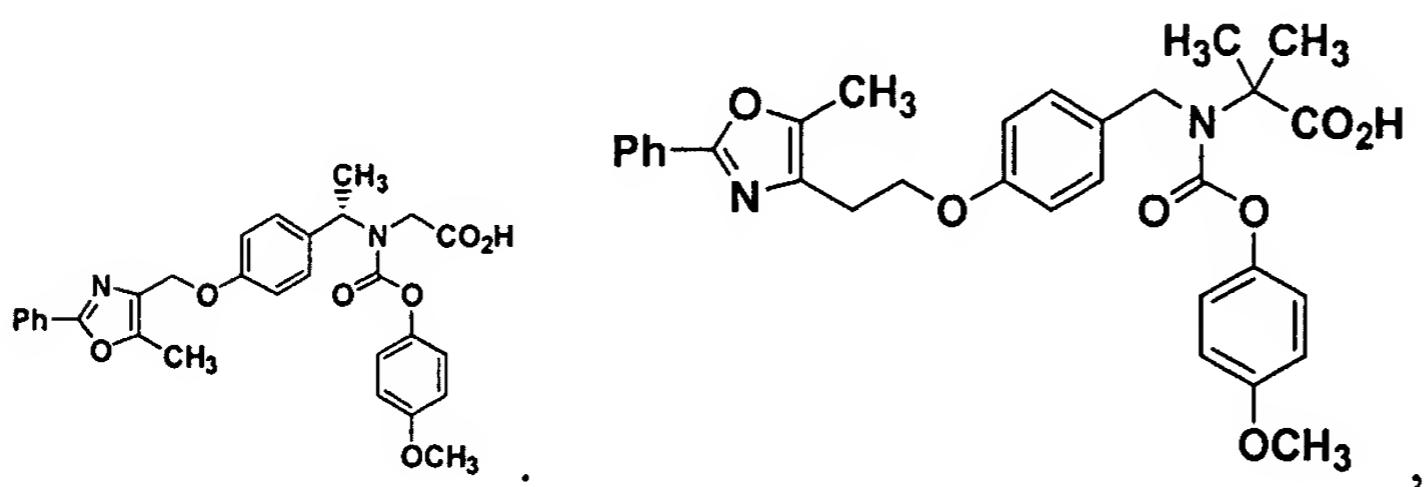
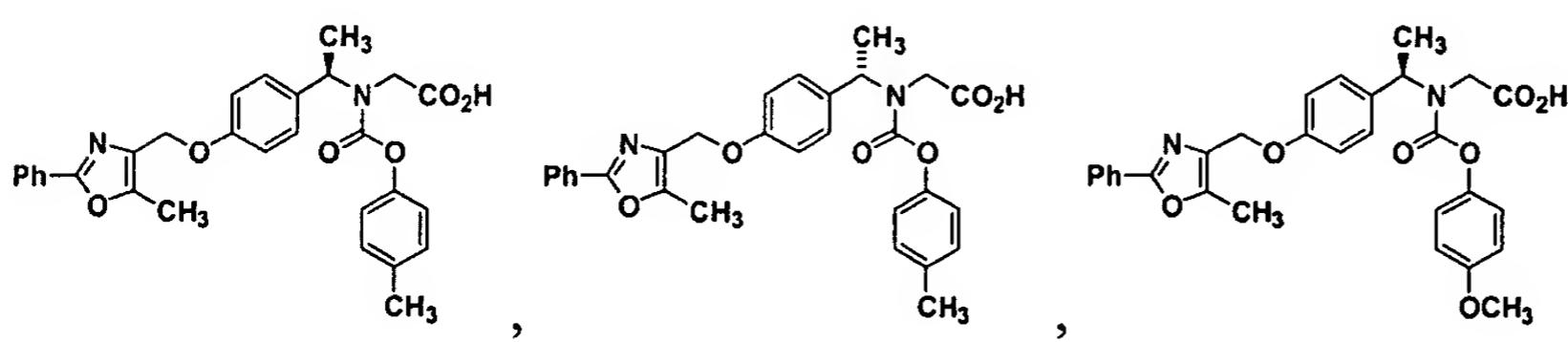


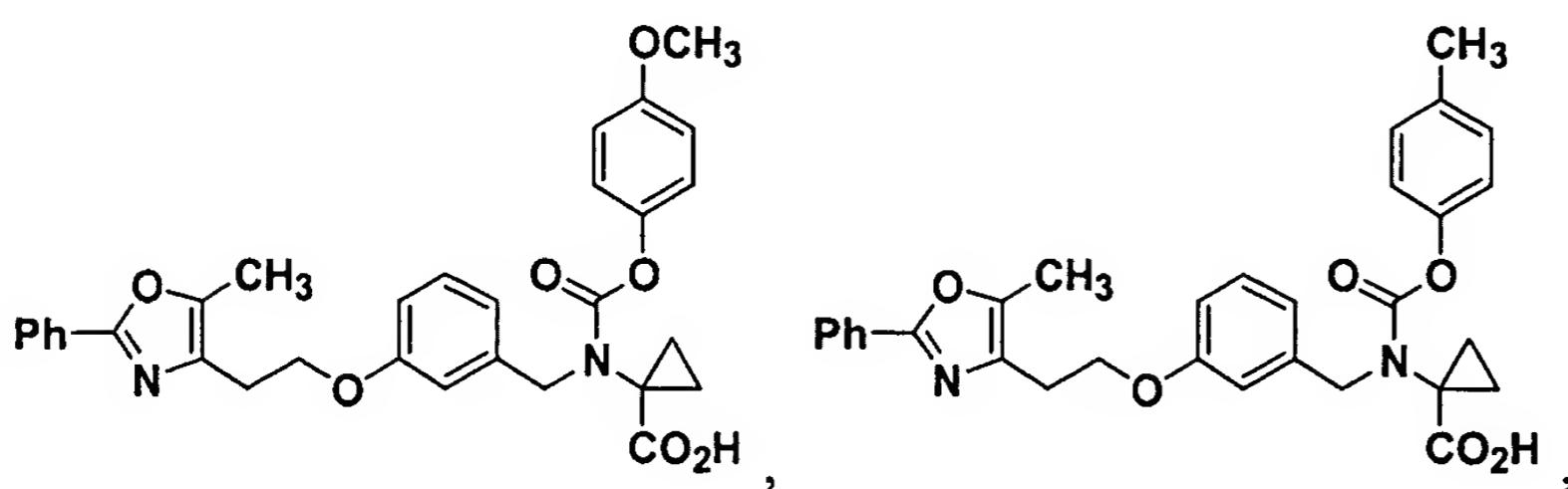
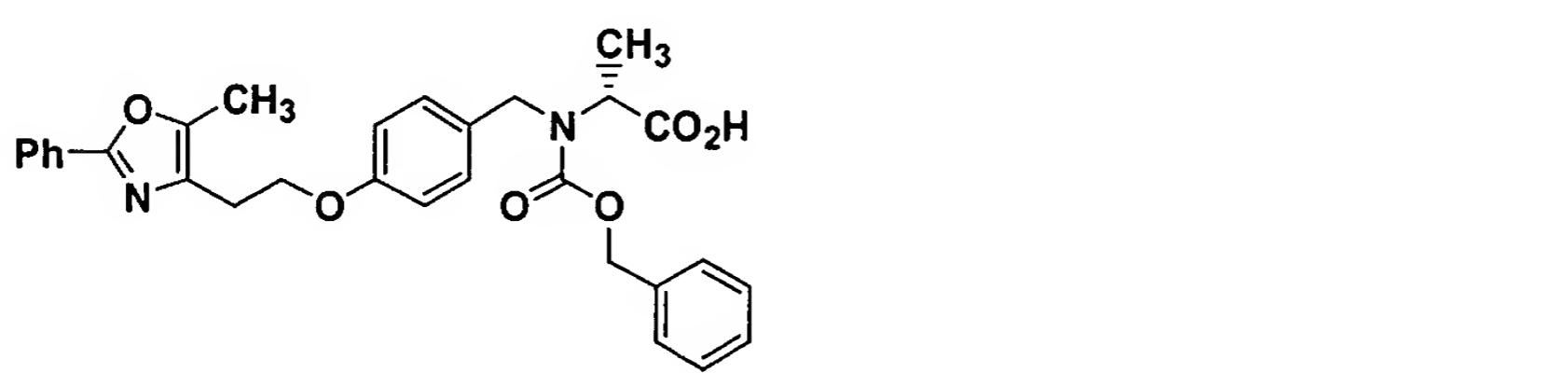
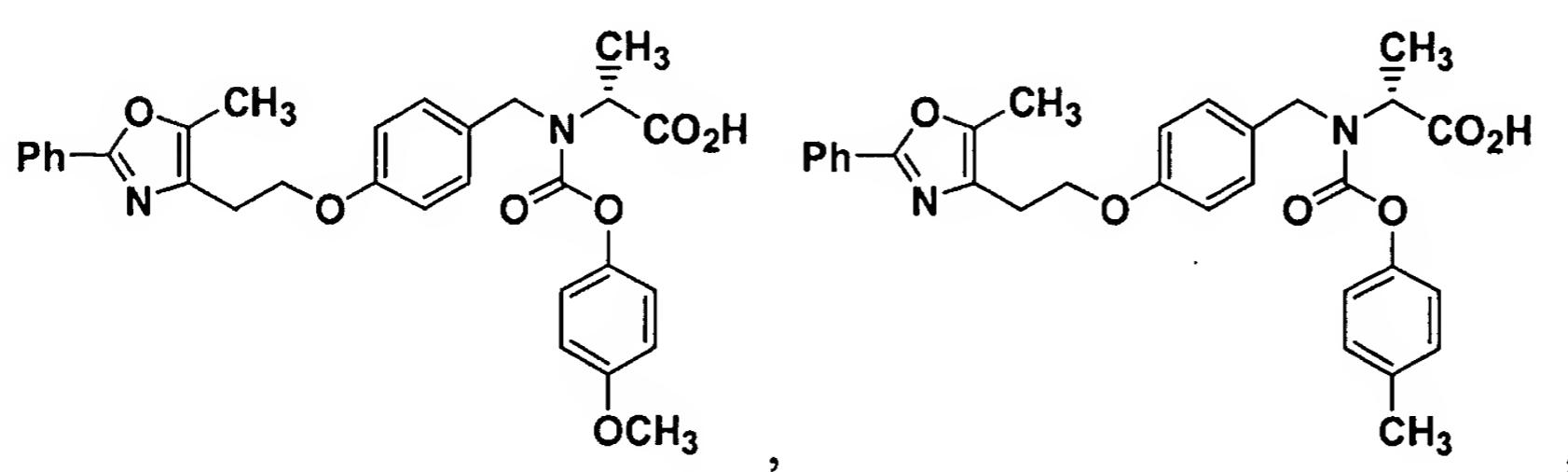
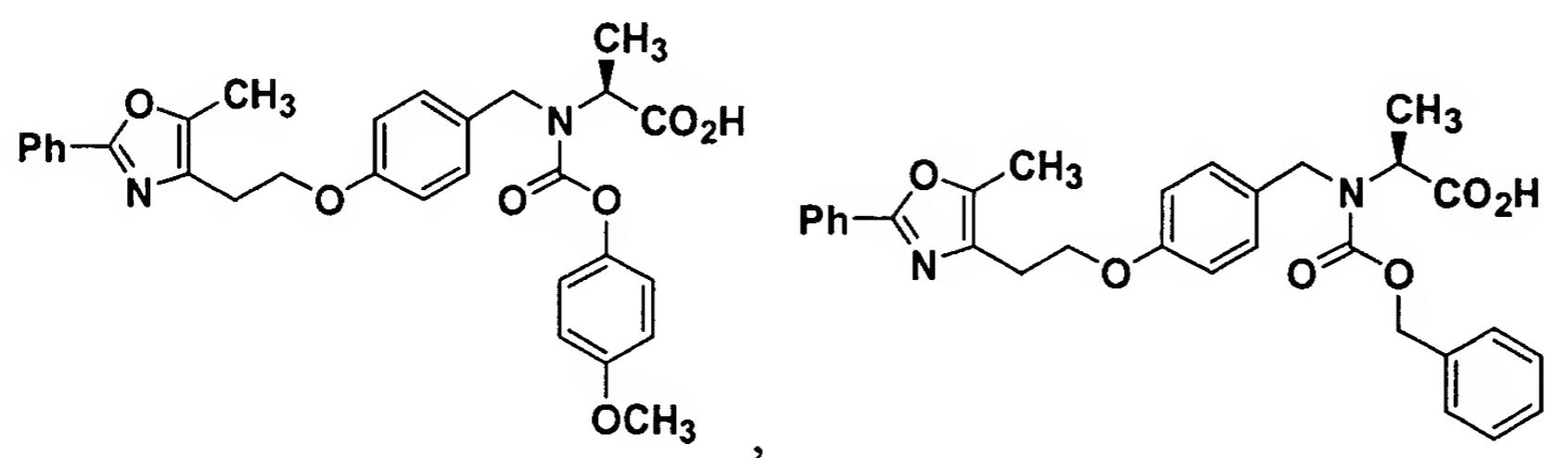
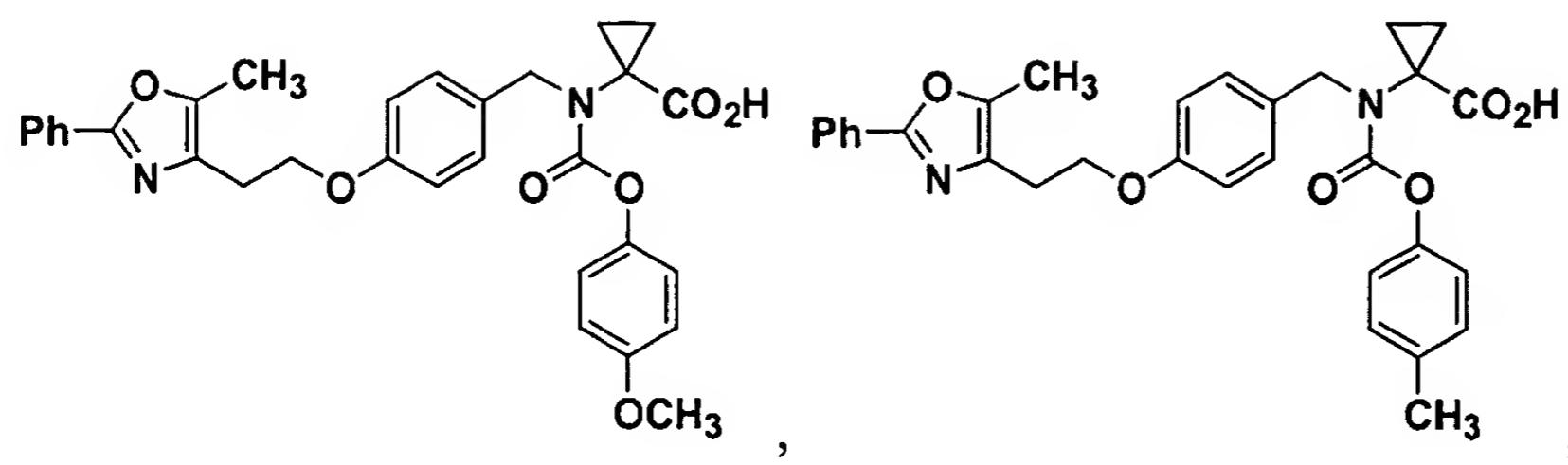


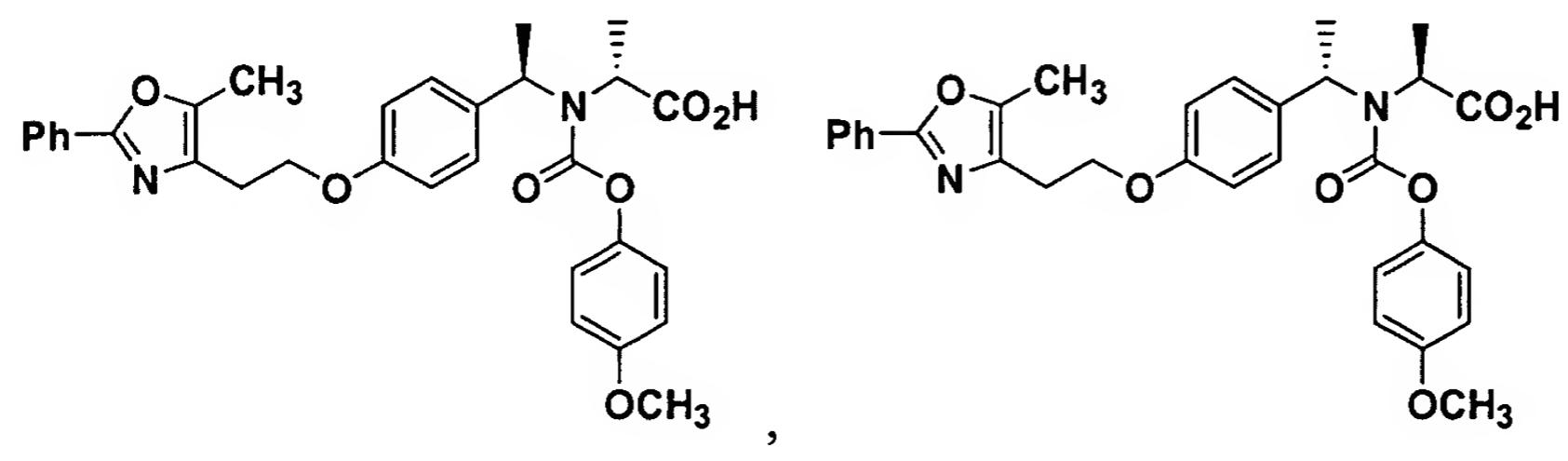
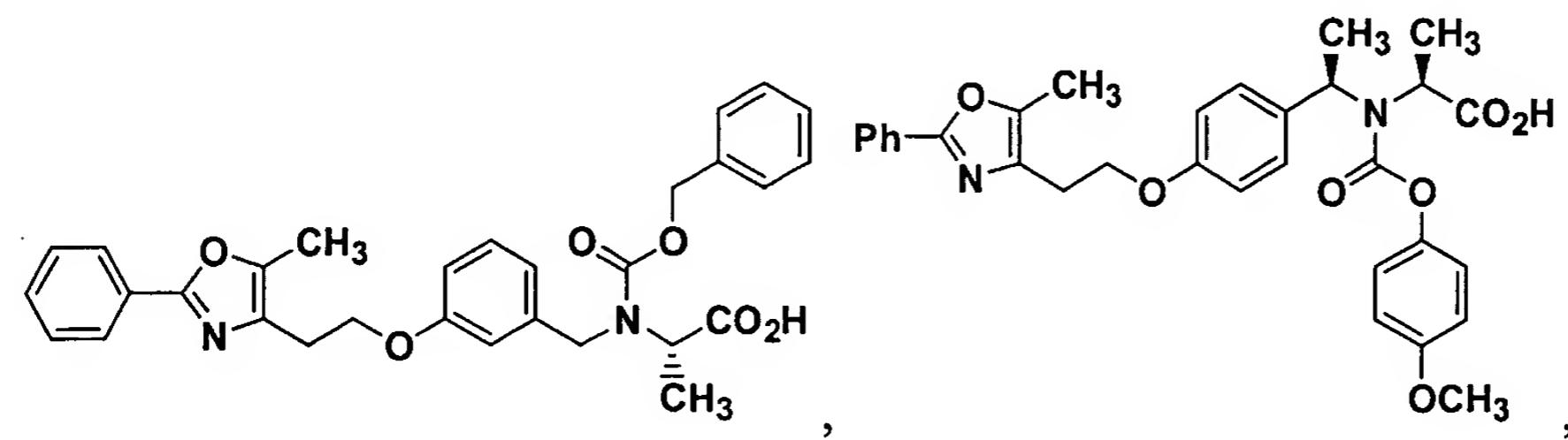
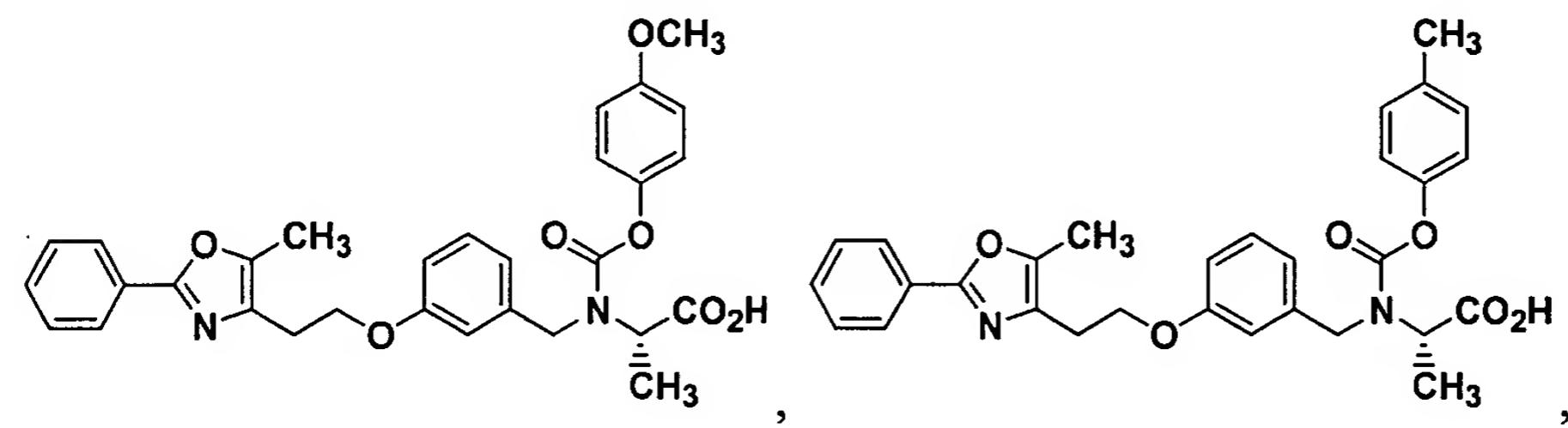
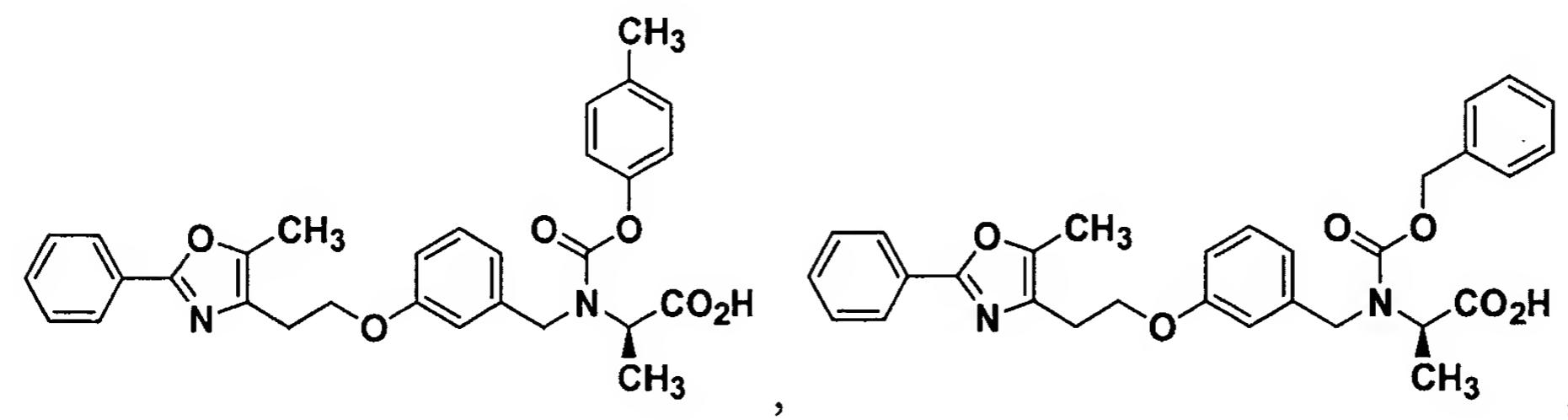
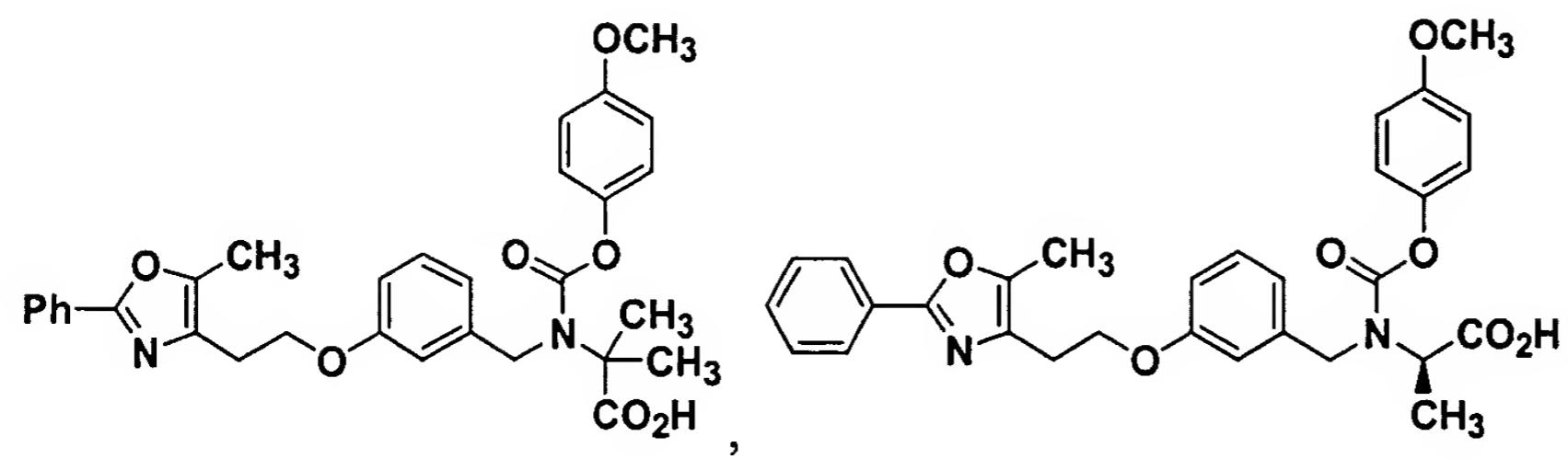


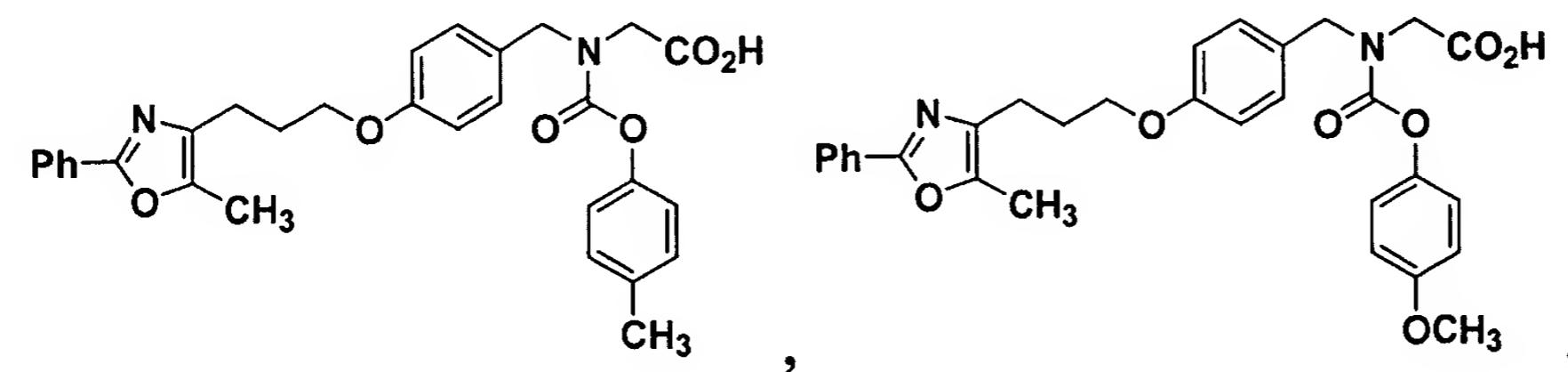
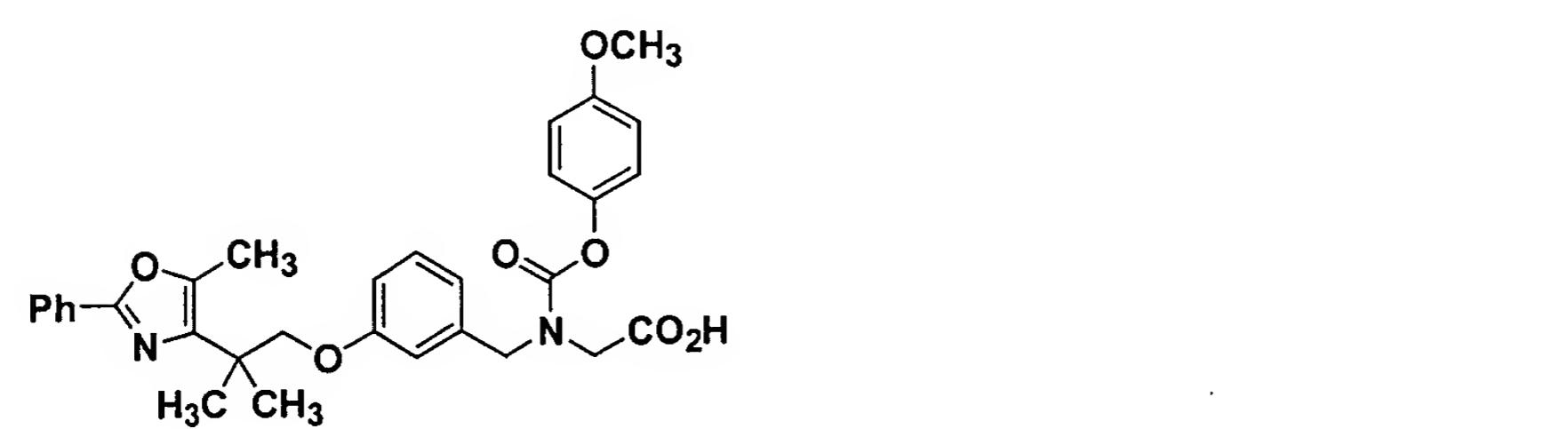
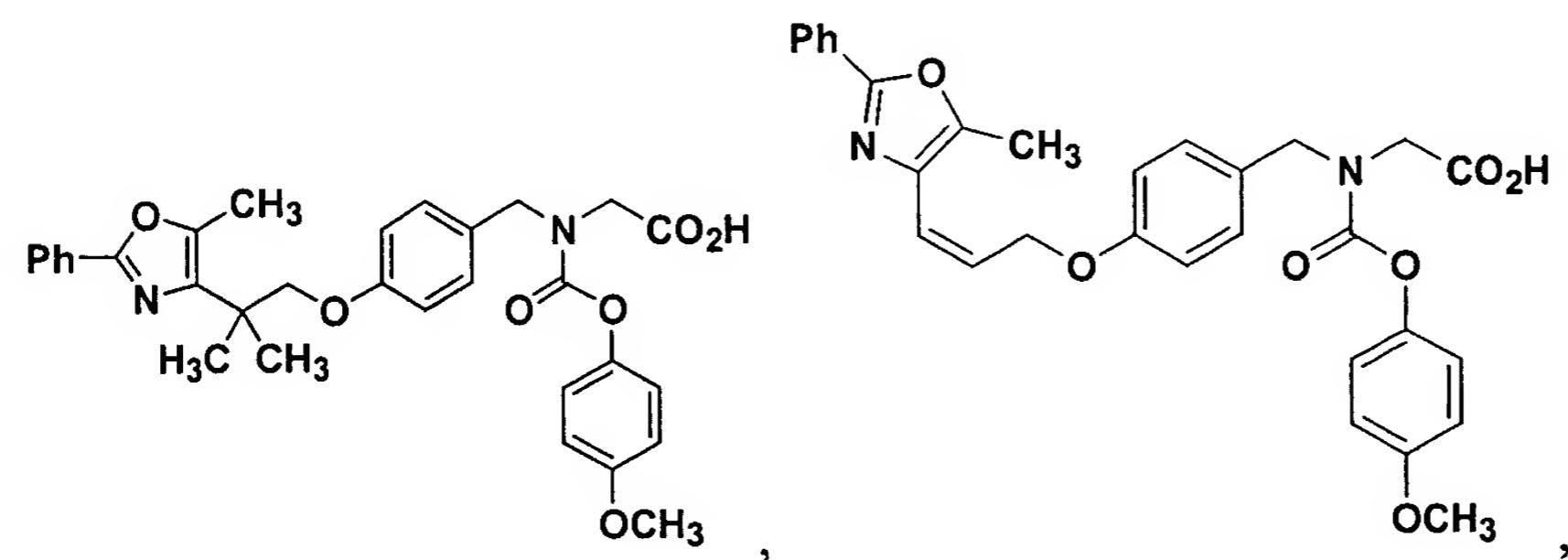
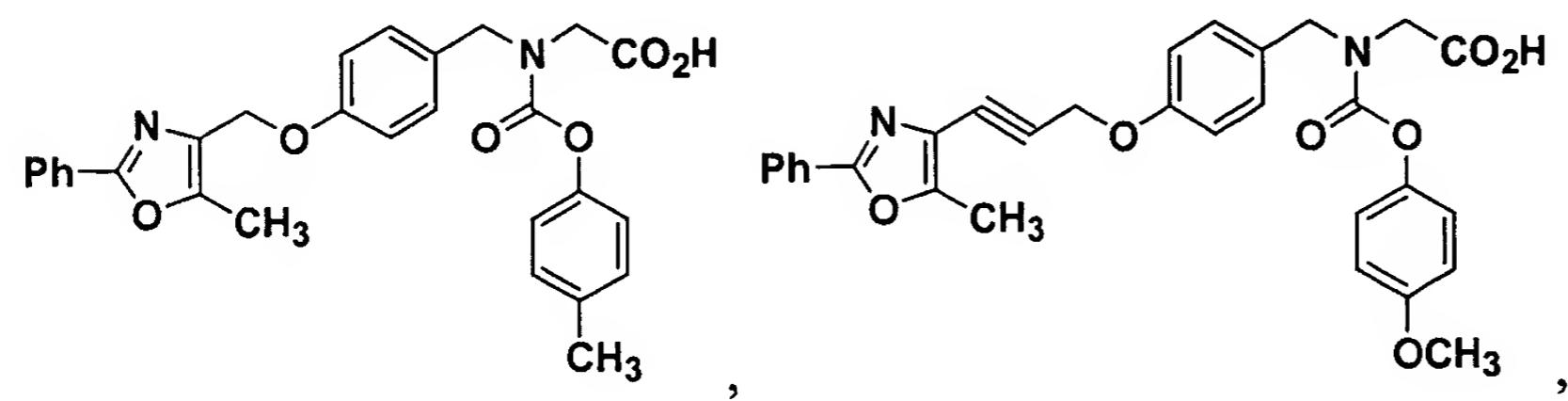
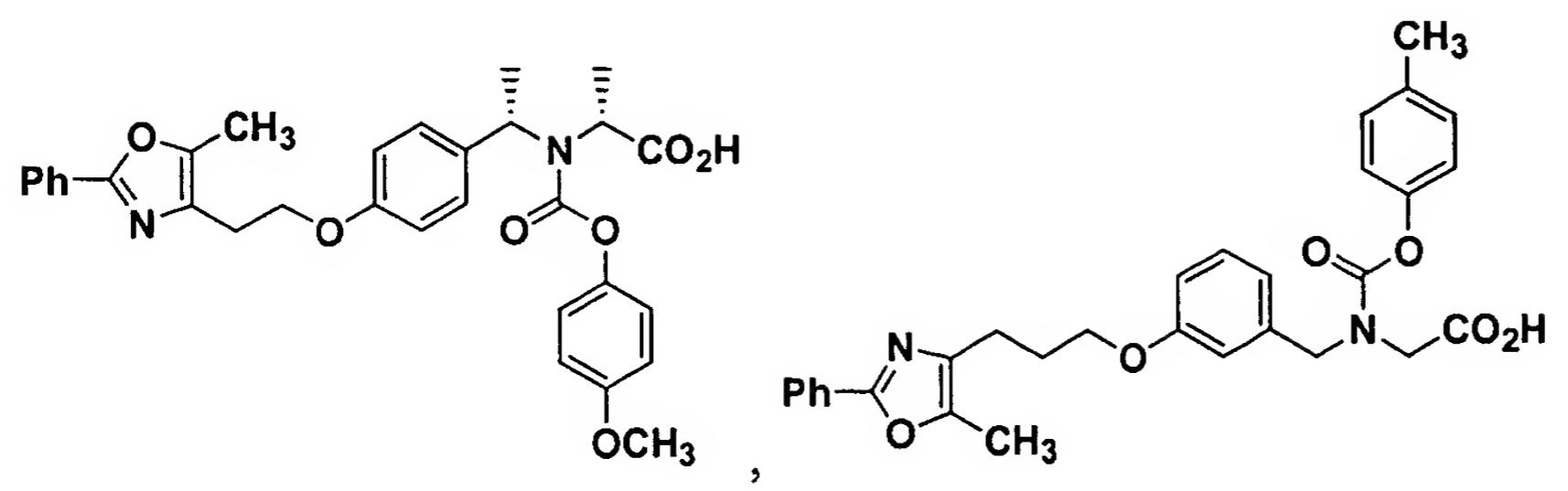


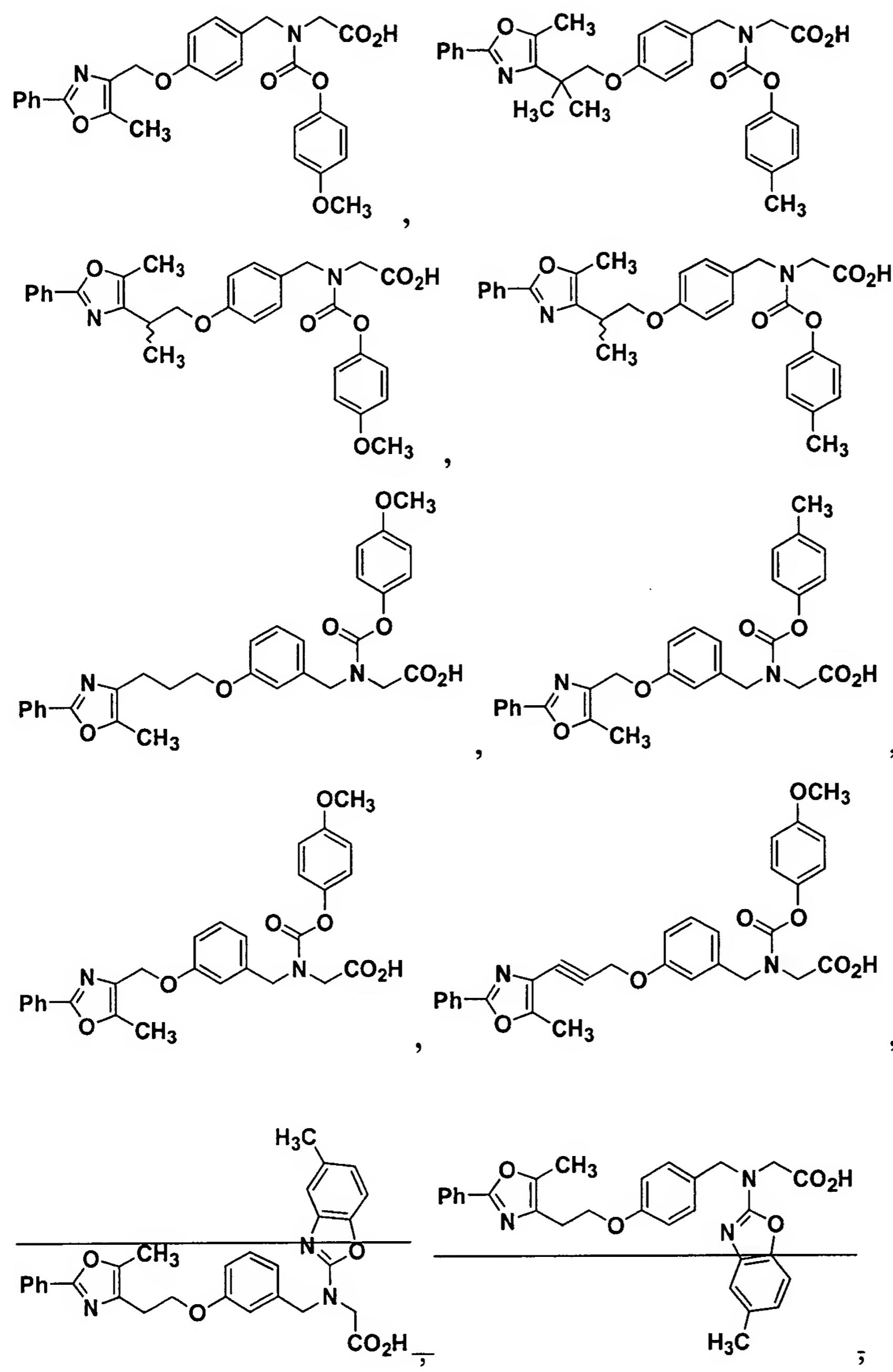
(±)

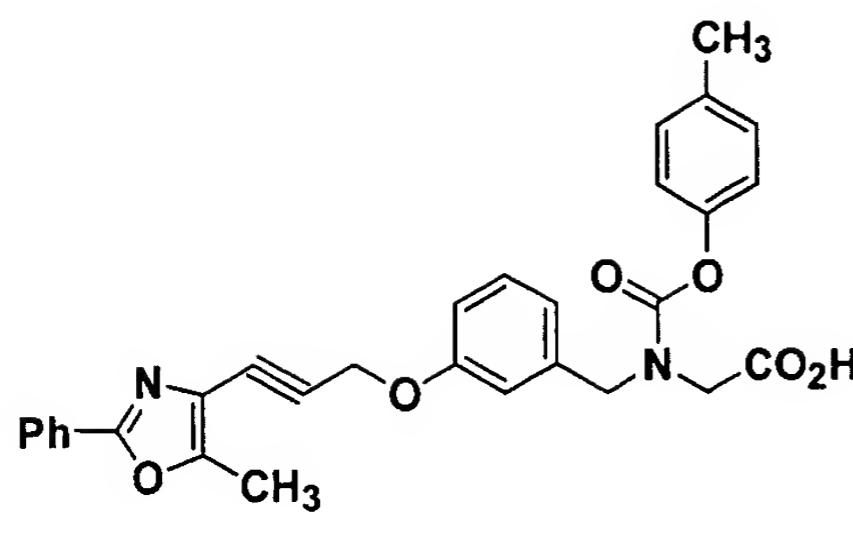




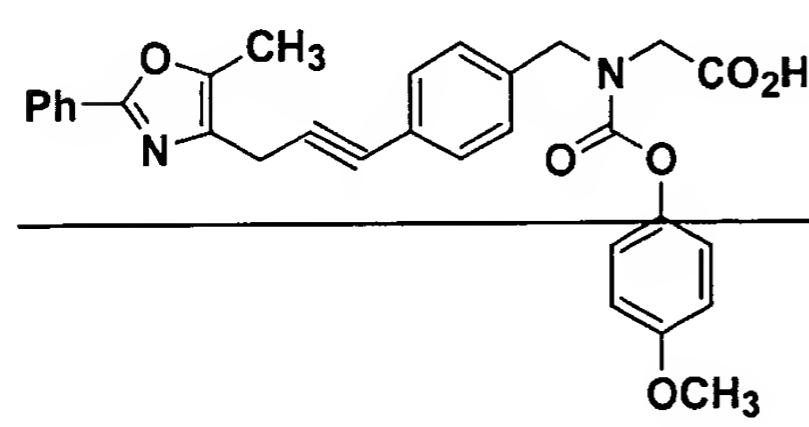
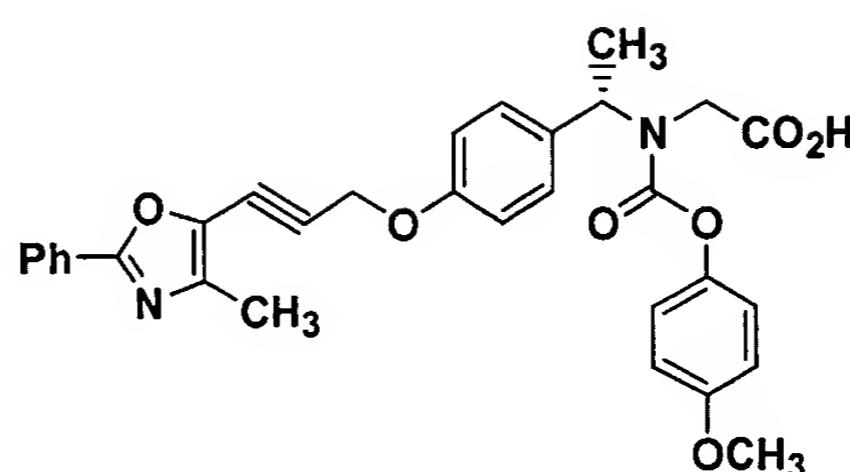
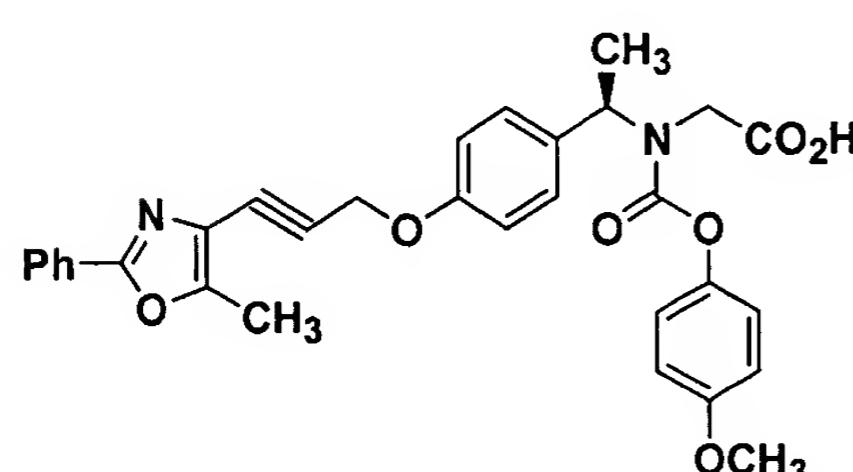
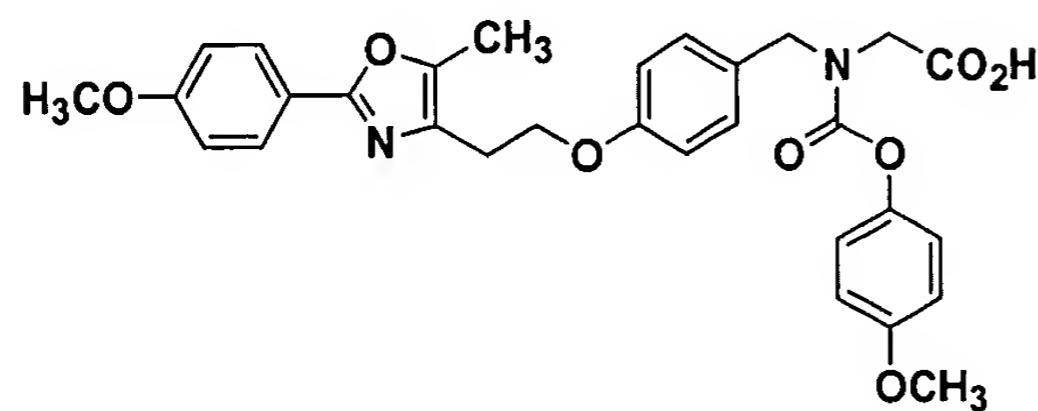




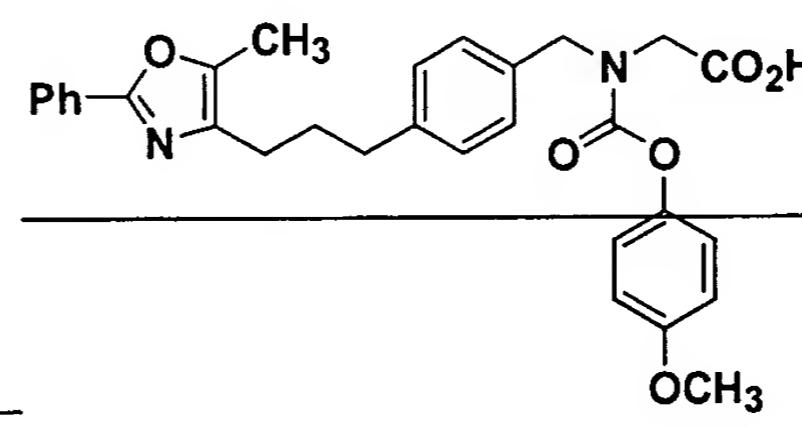




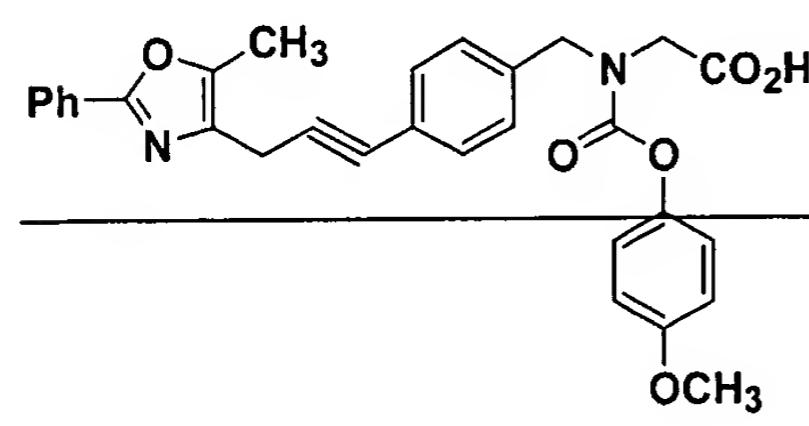
3



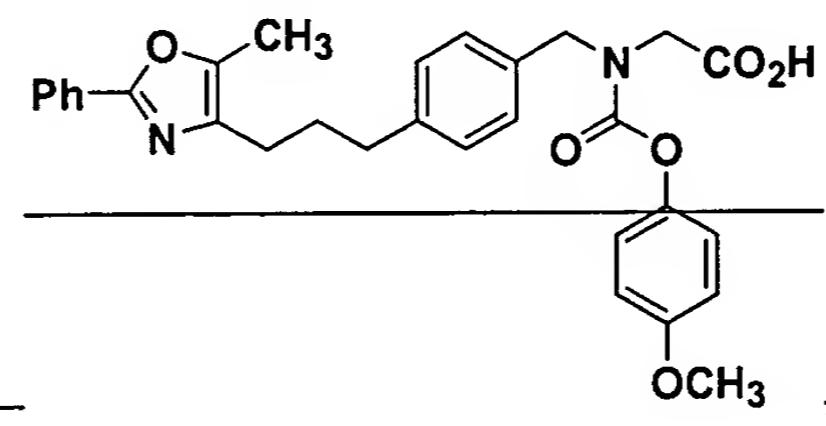
1



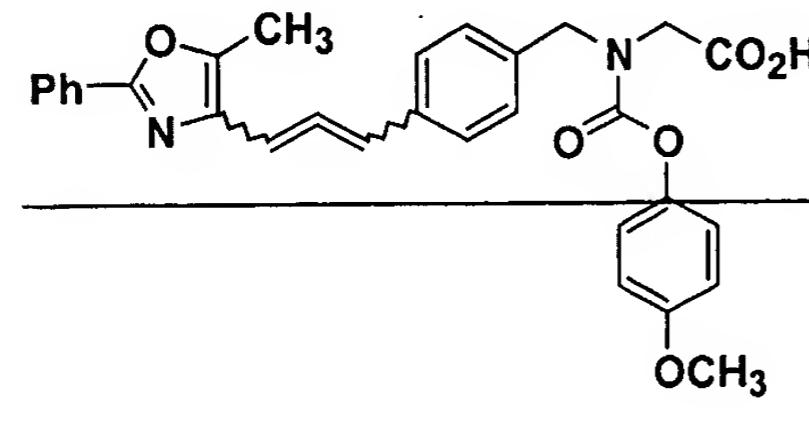
三



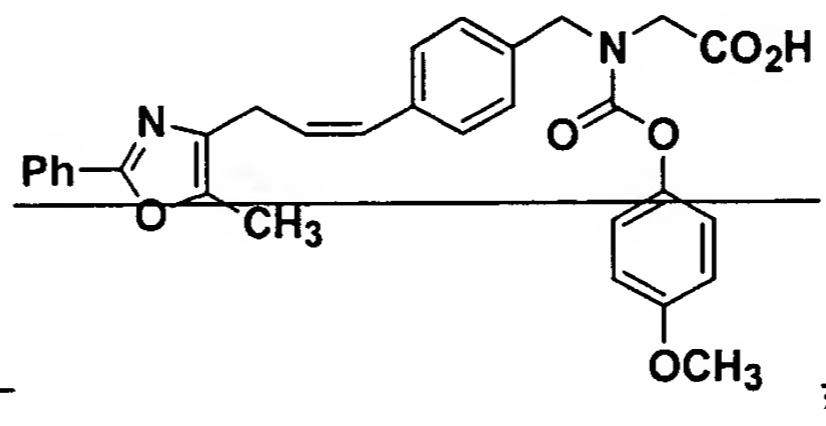
1



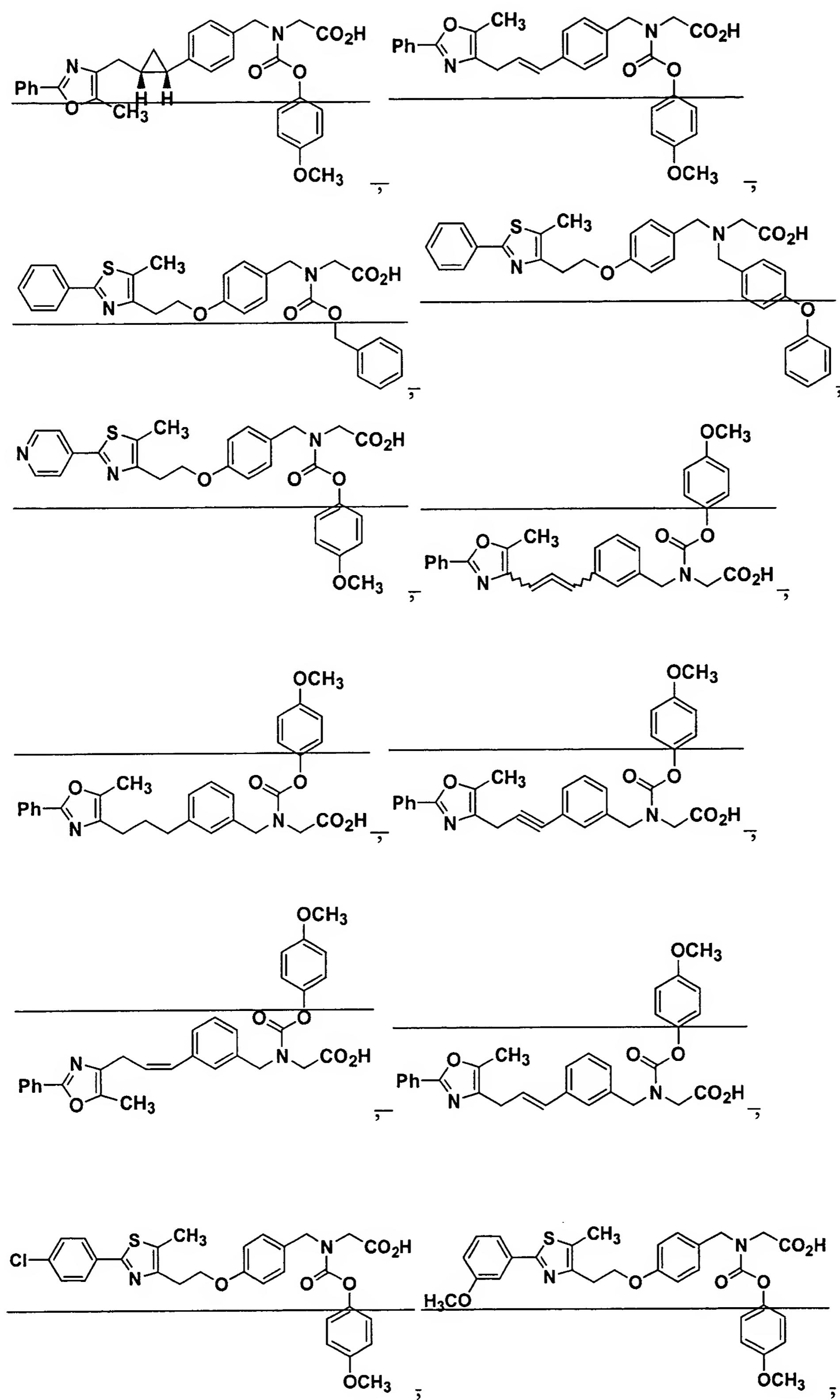
三

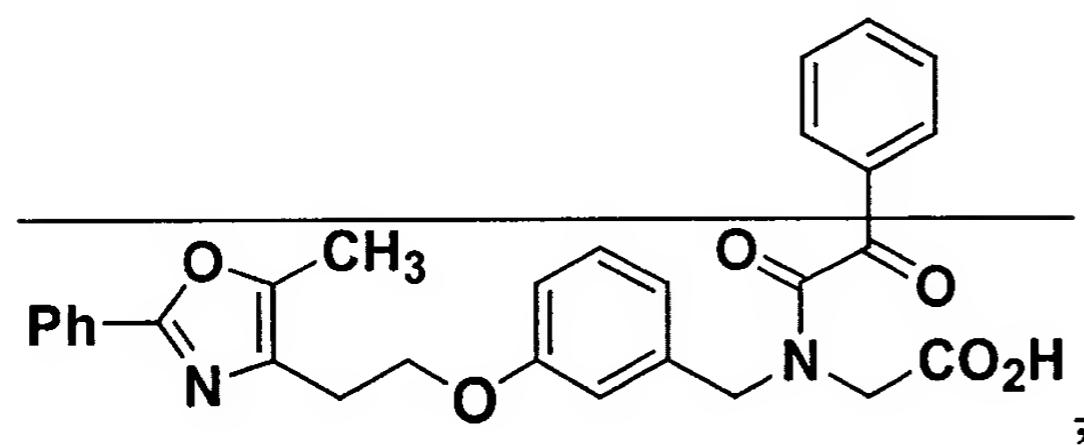
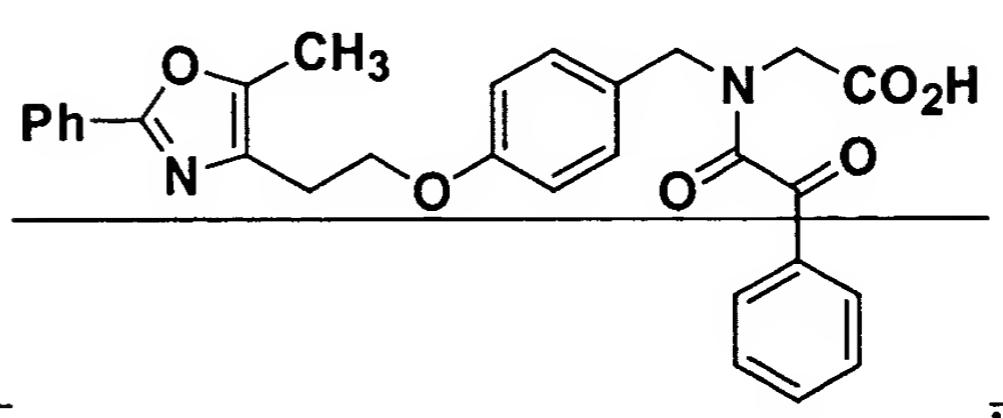
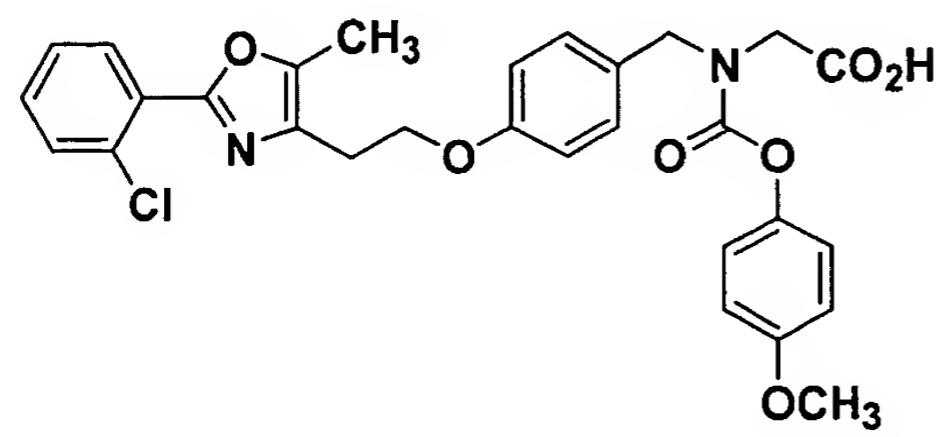
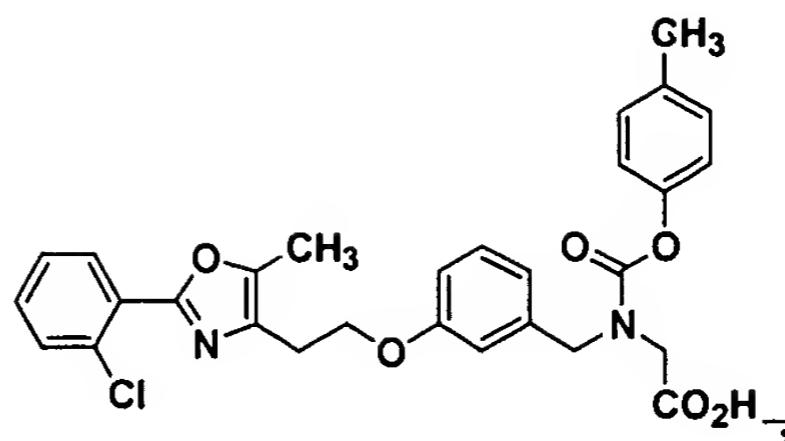
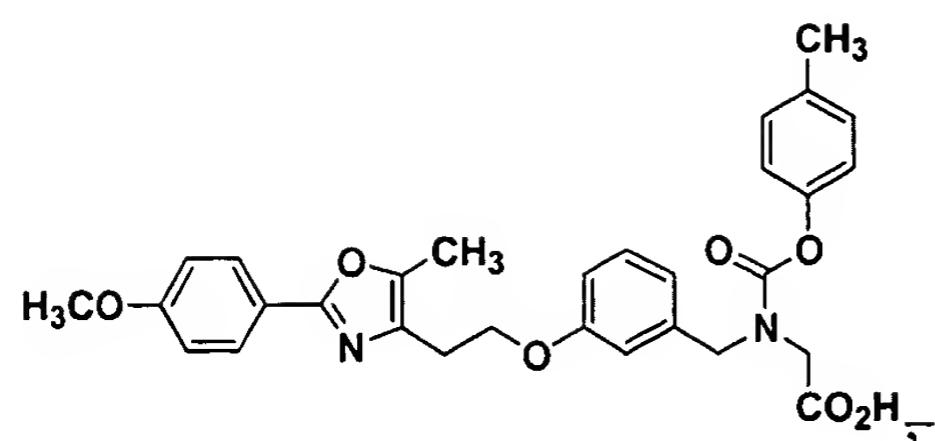


3



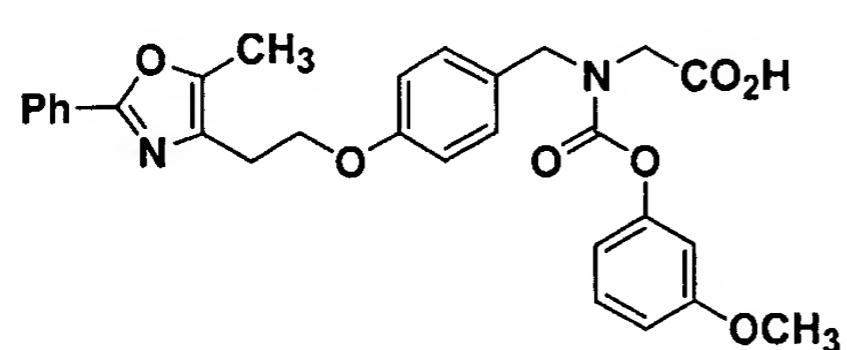
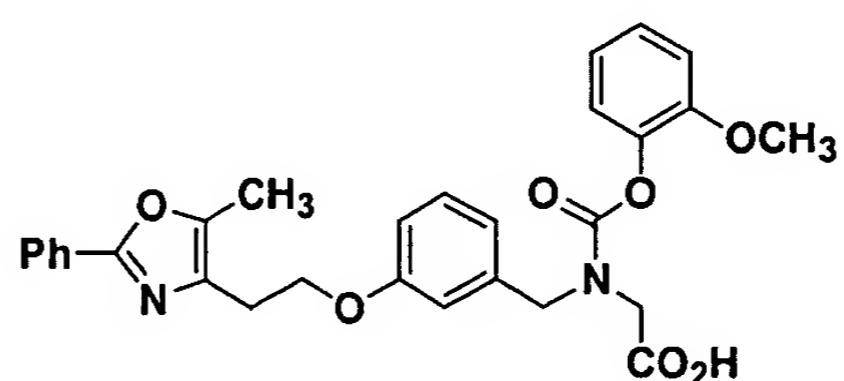
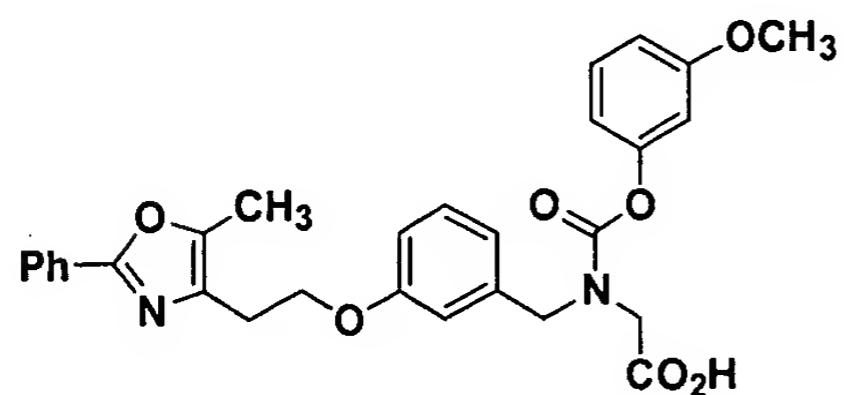
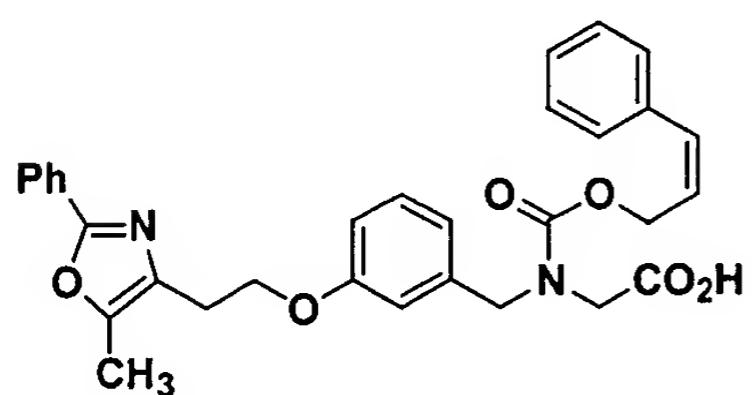
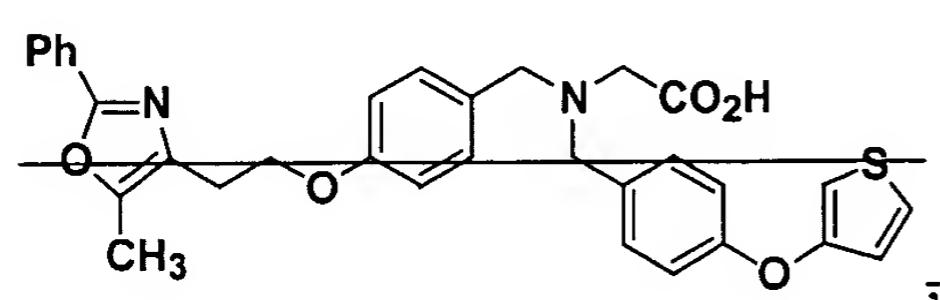
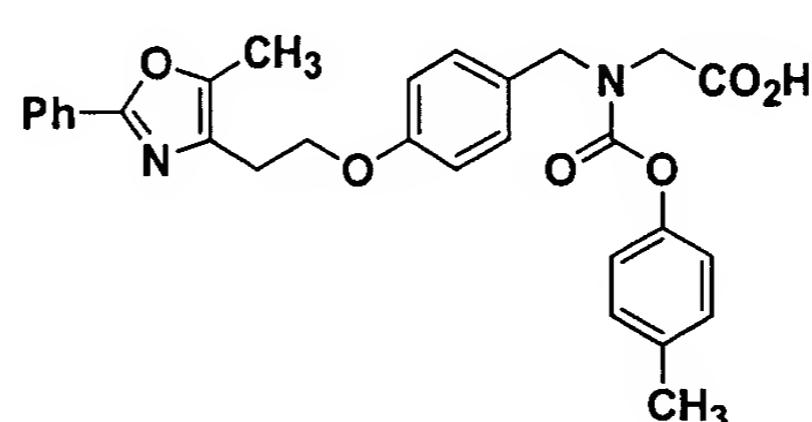
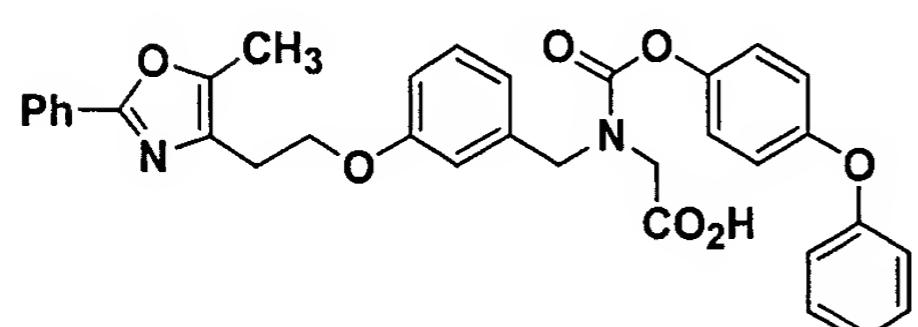
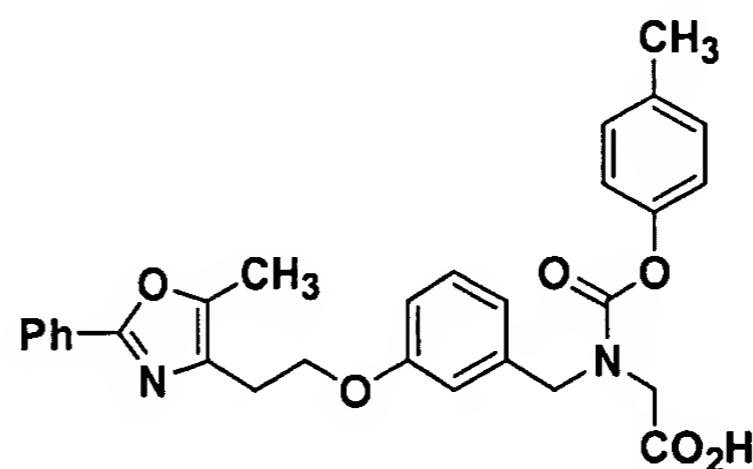
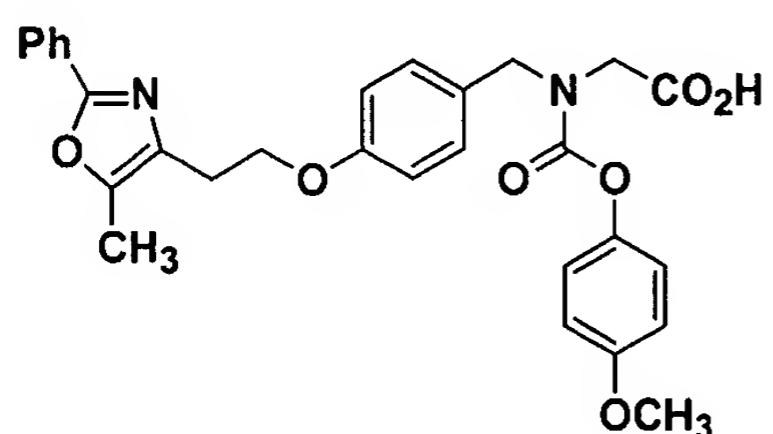
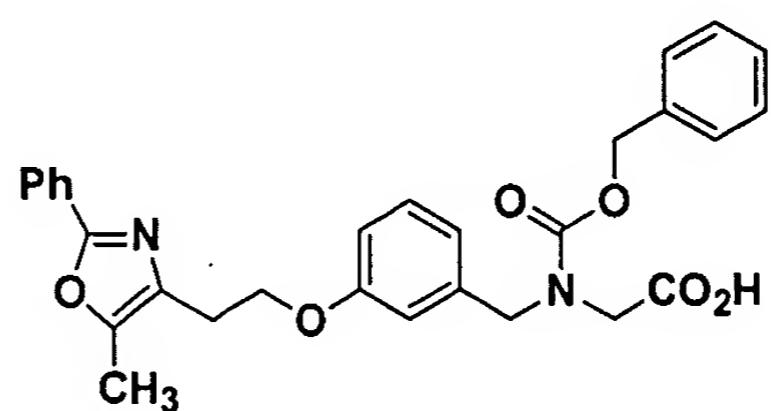
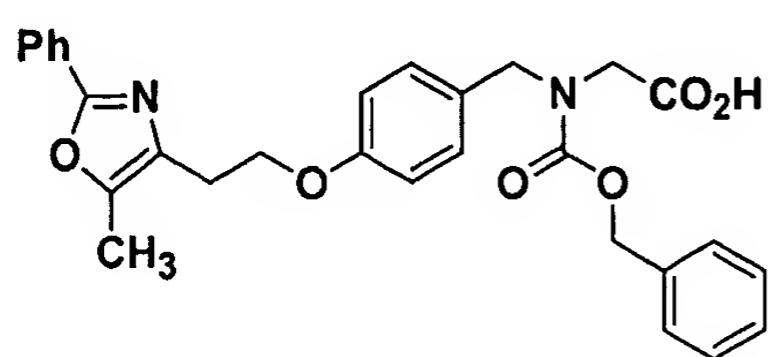
3

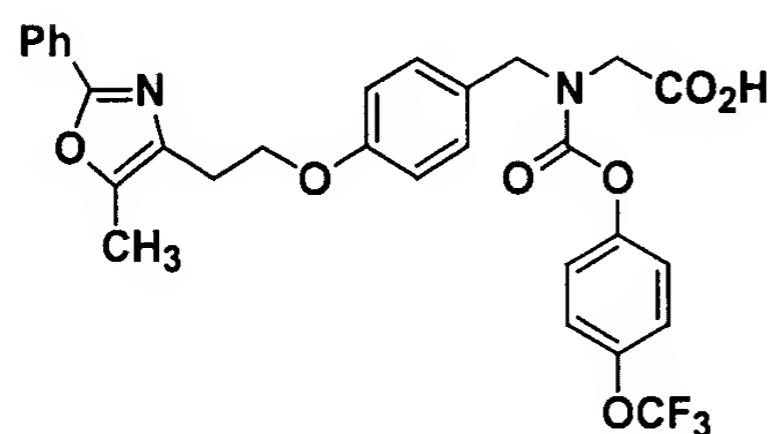
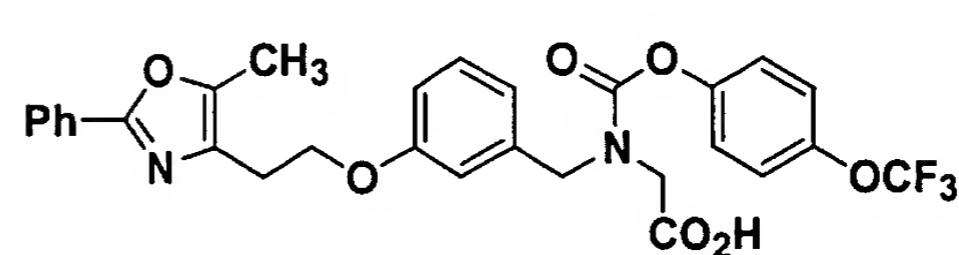
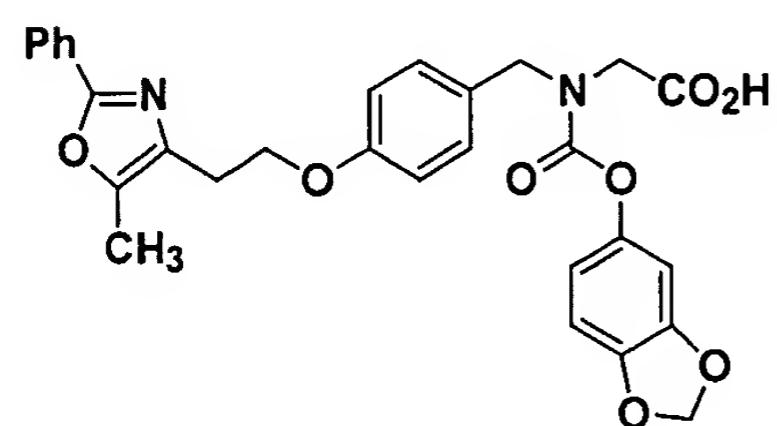
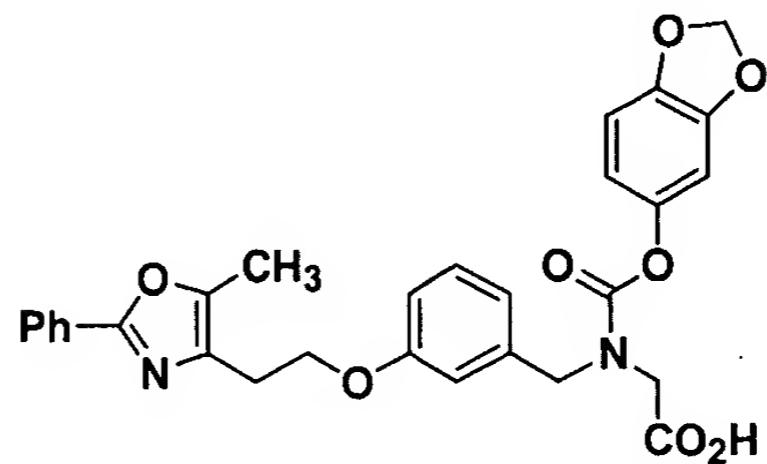
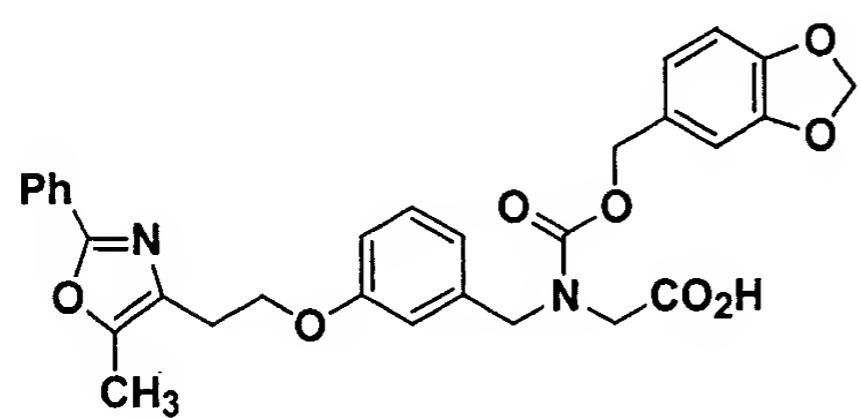
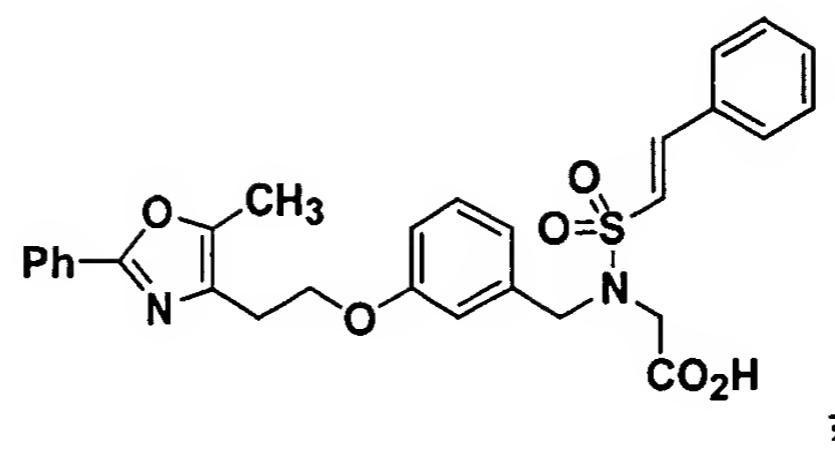
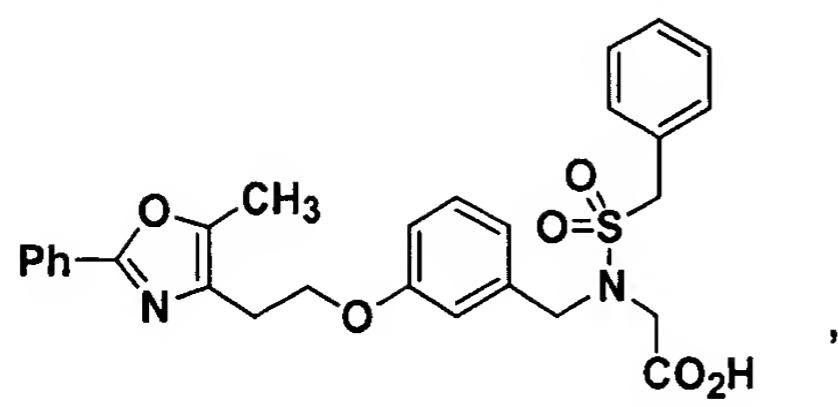


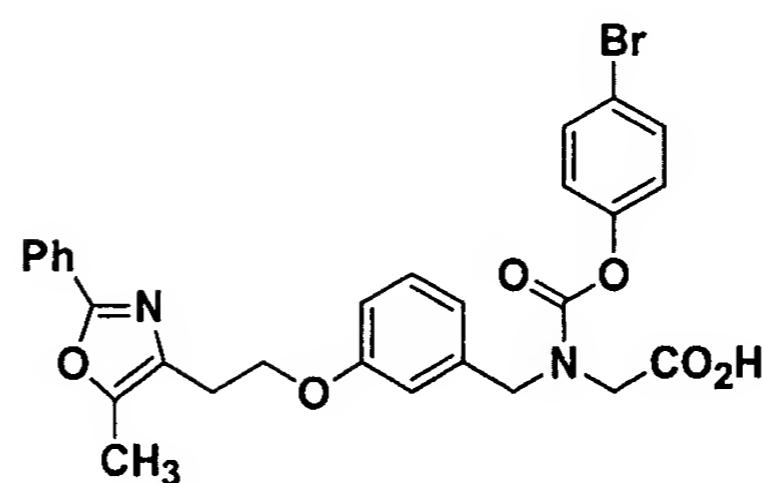
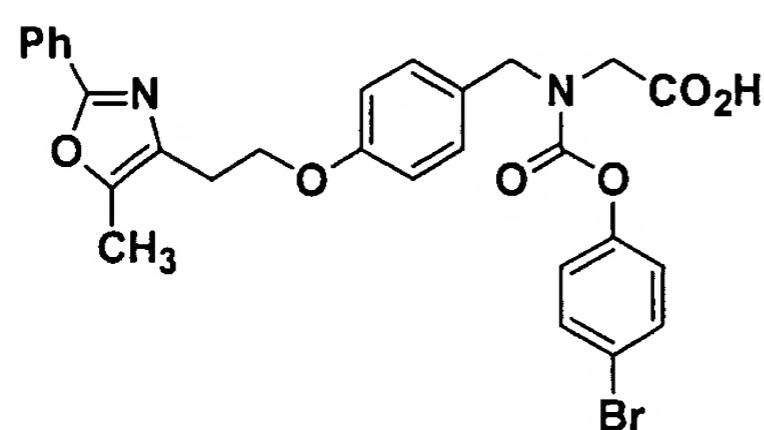
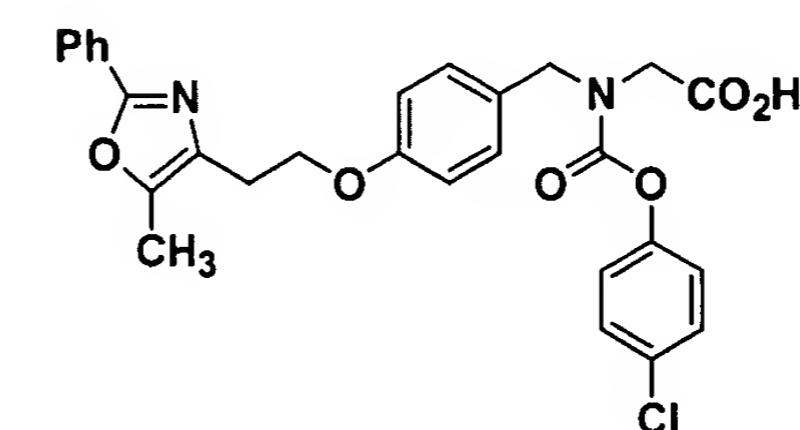
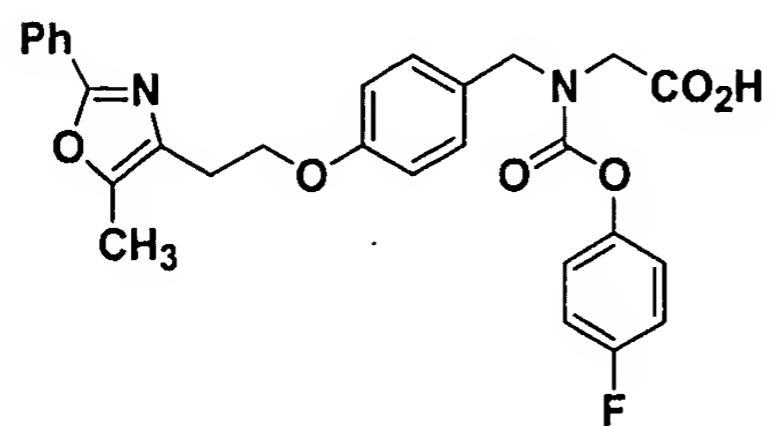
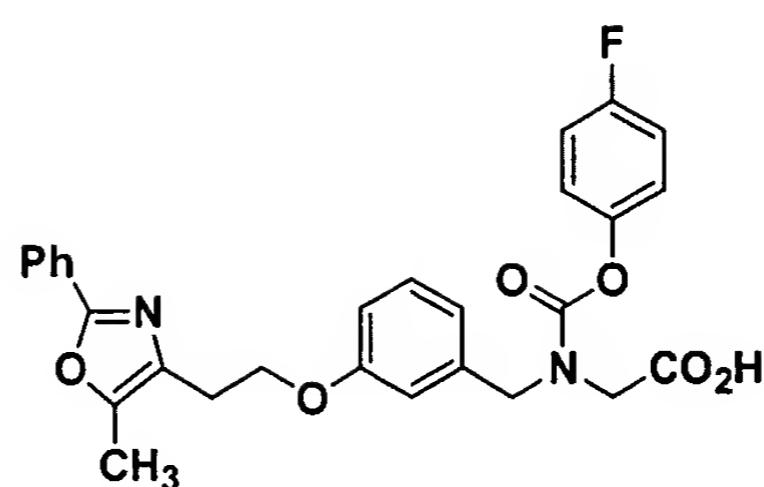
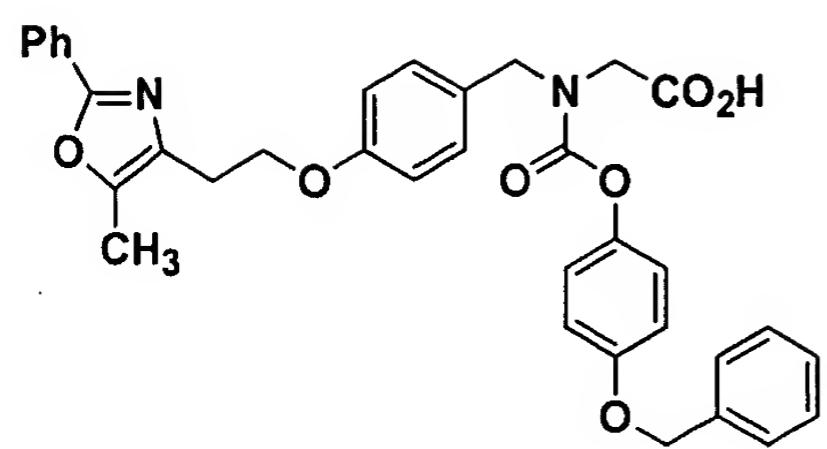


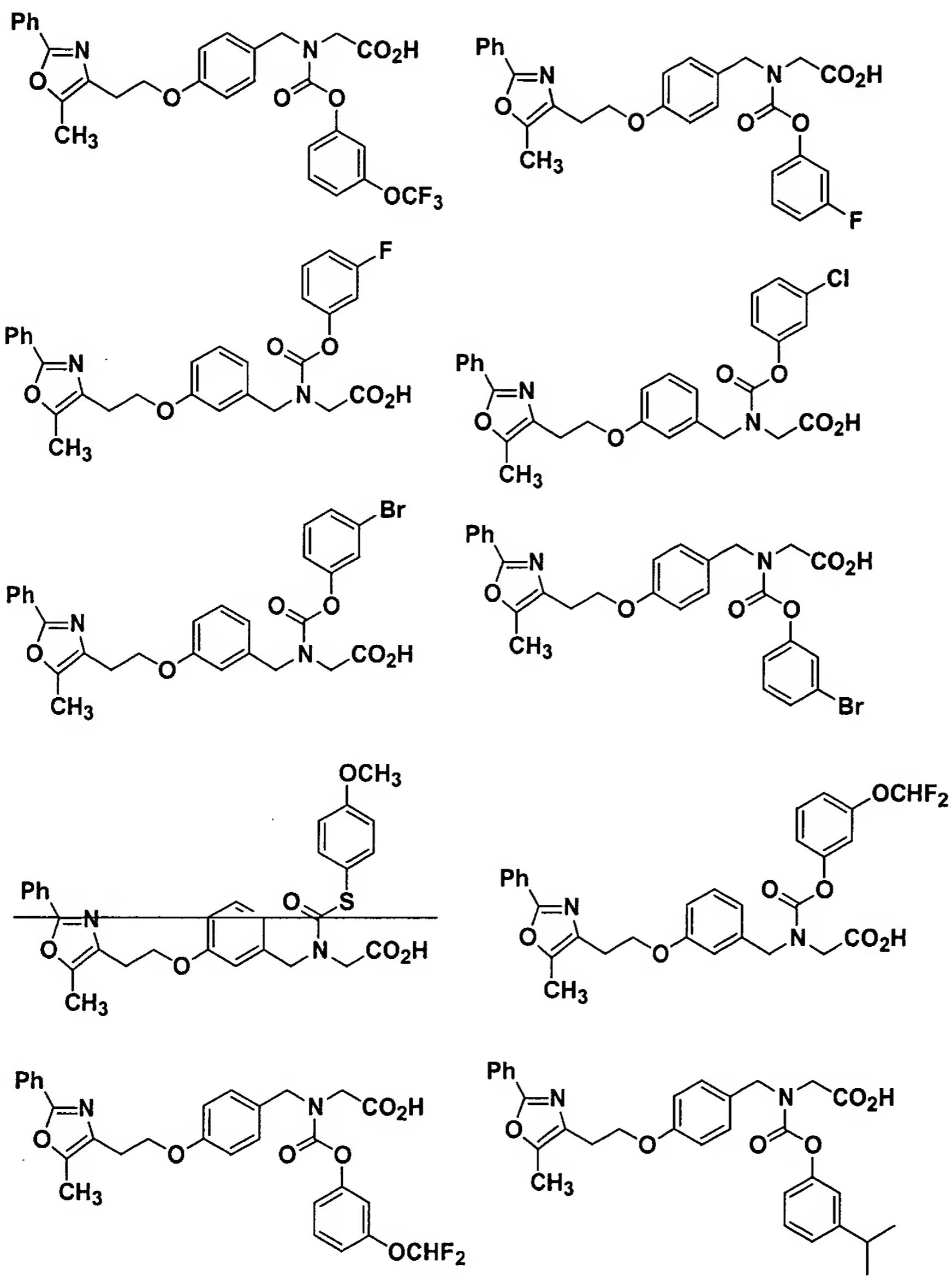
**Claim 17 (currently amended)**

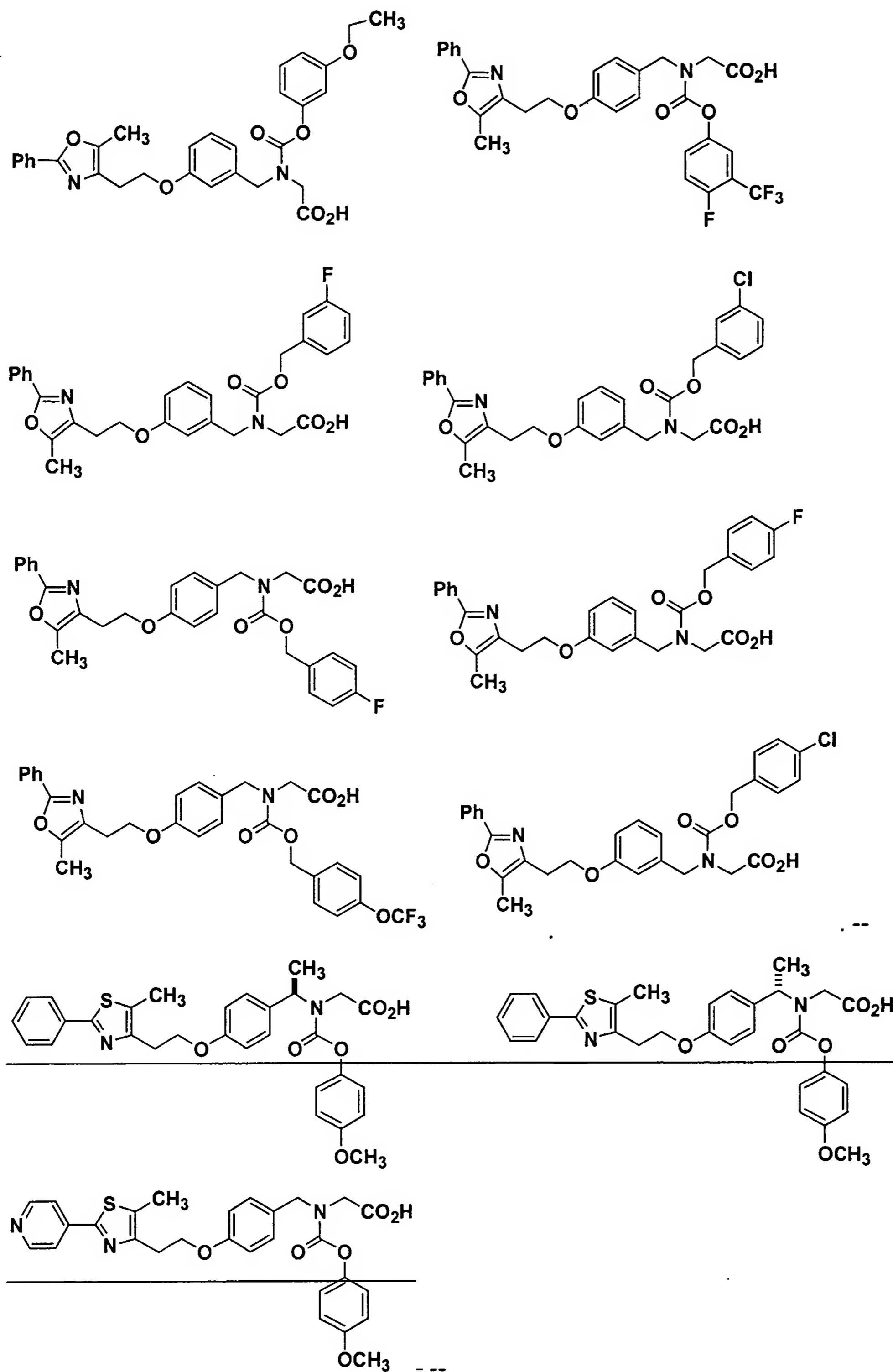
--17. (Amended) The method as defined in Claim 34 wherein the compound employed has the structure







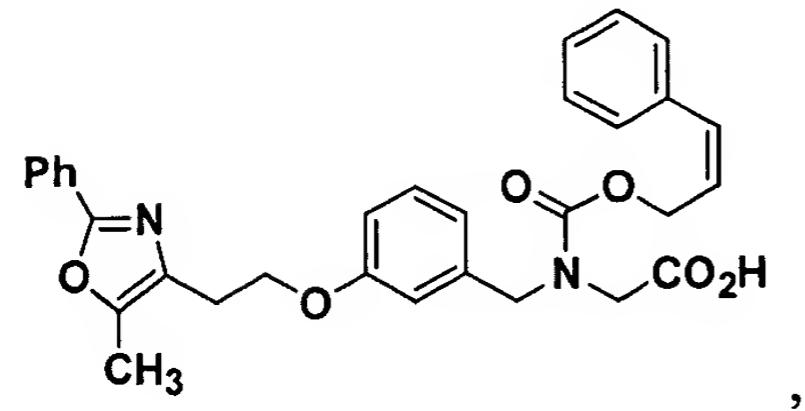
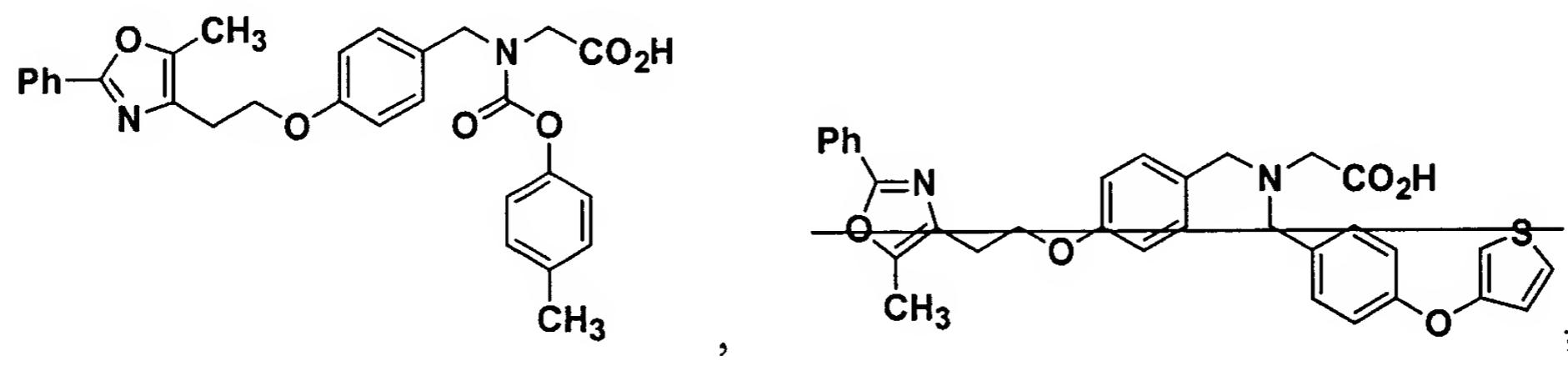
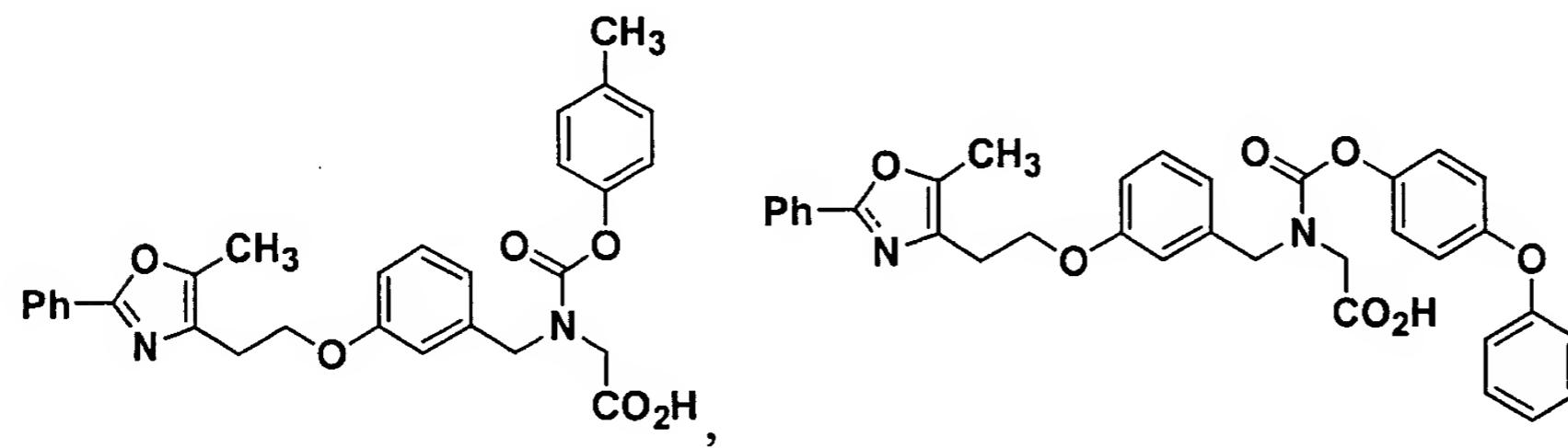
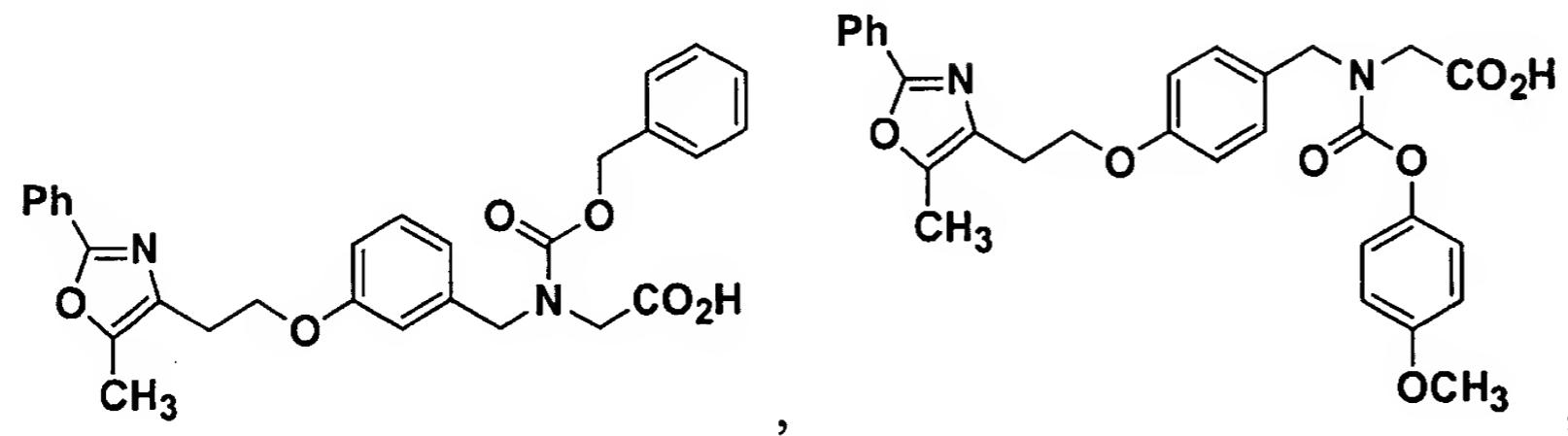
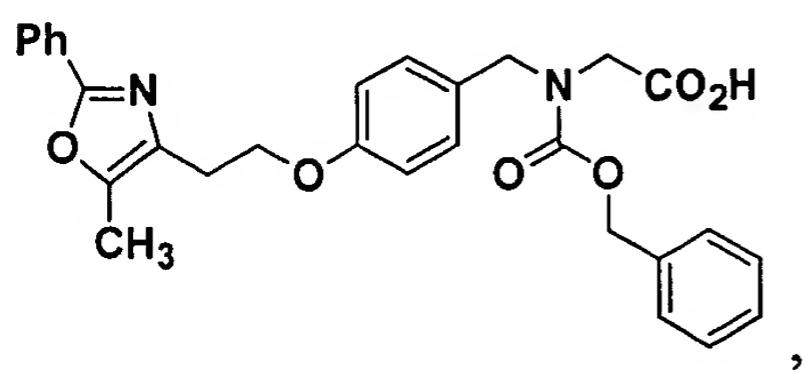


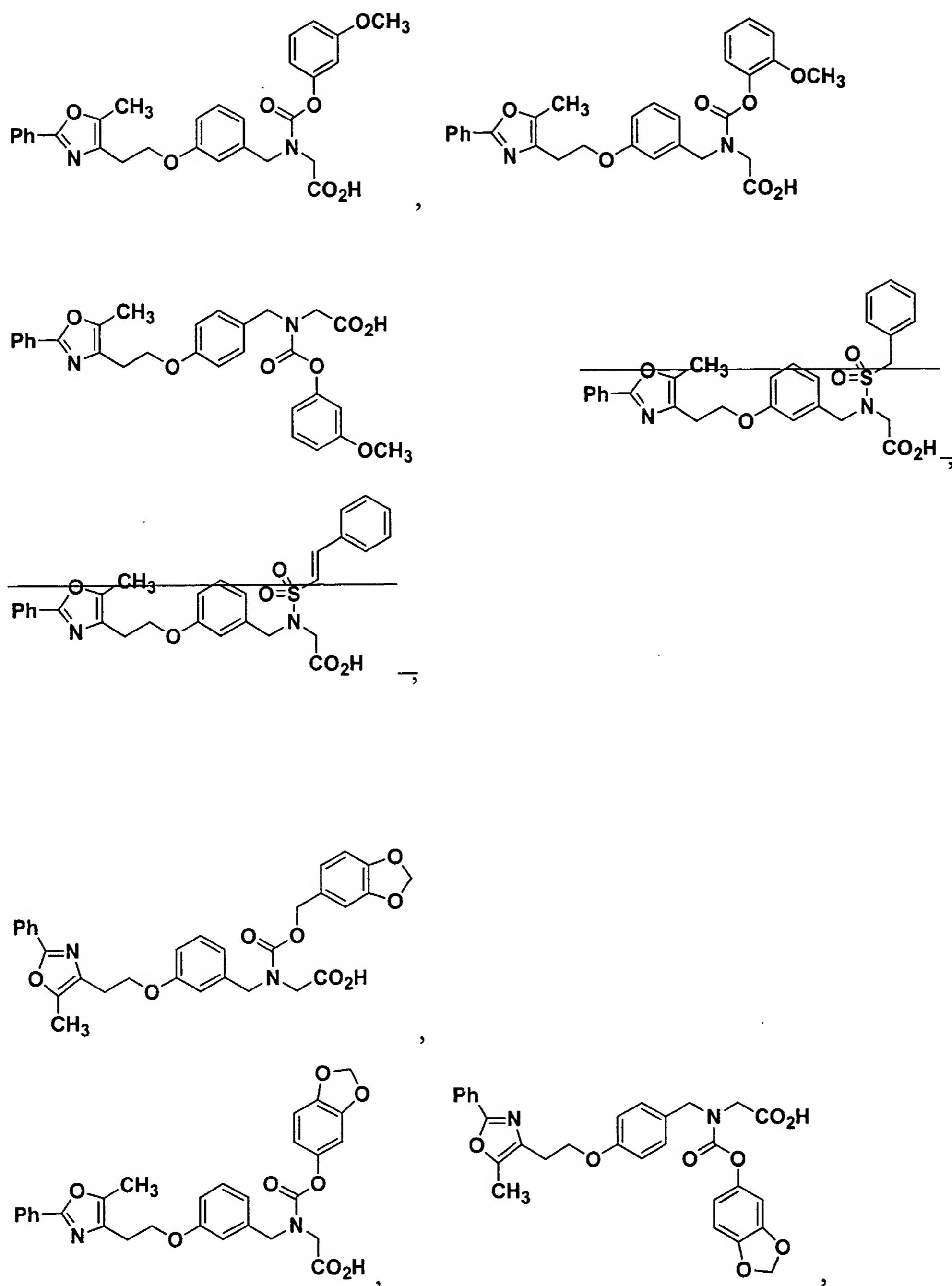


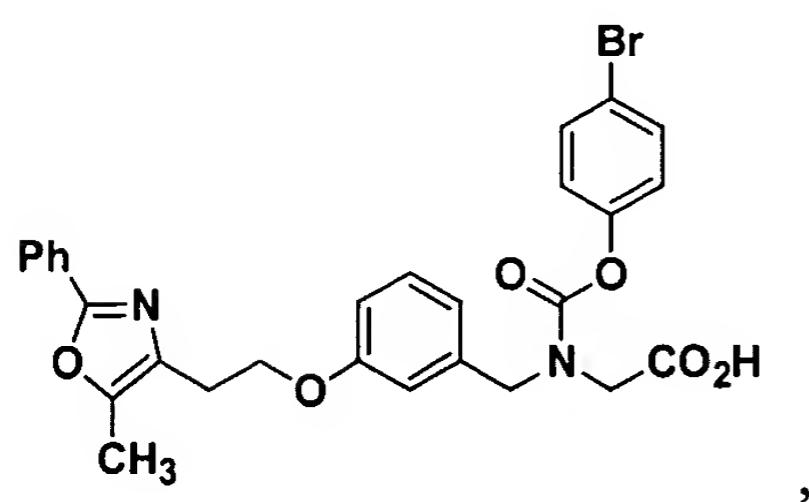
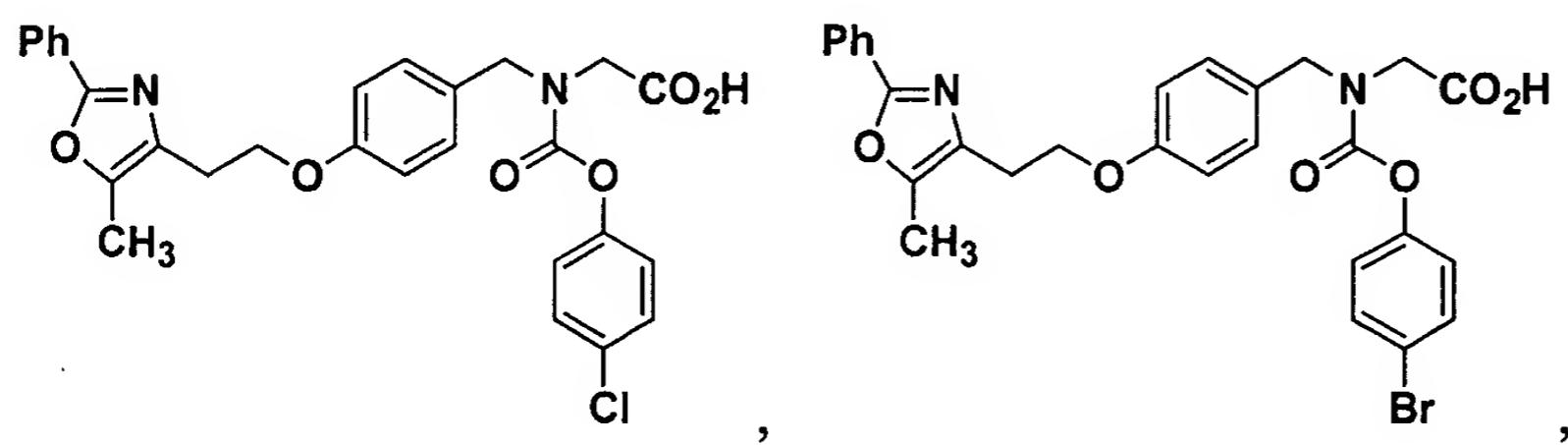
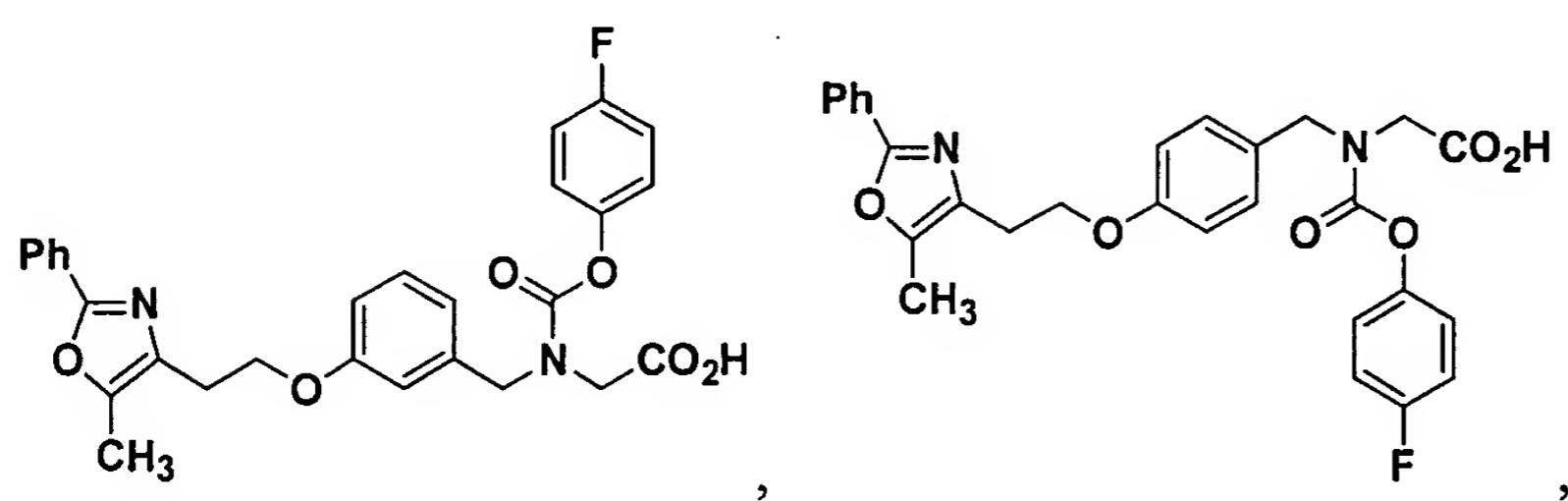
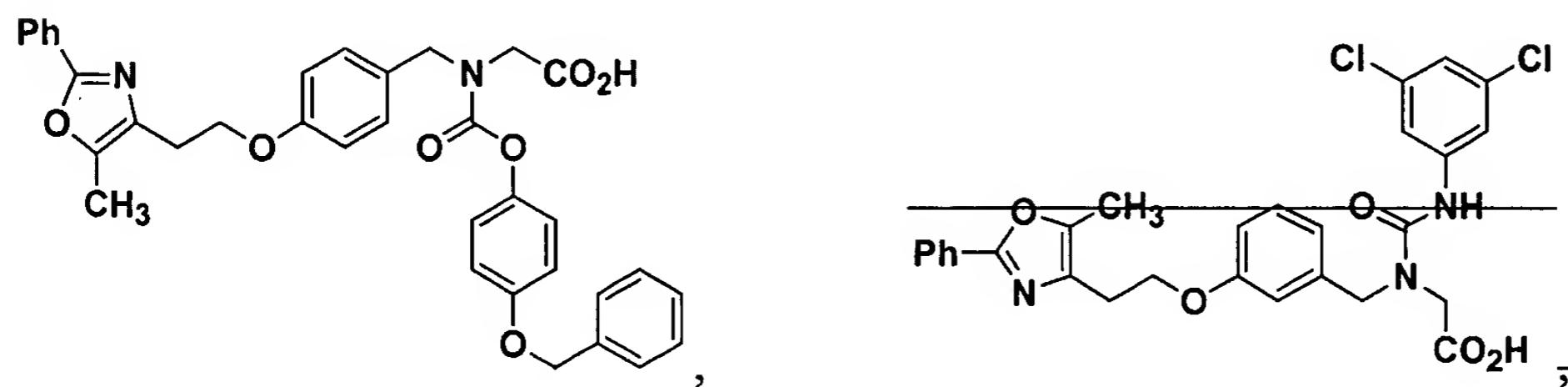
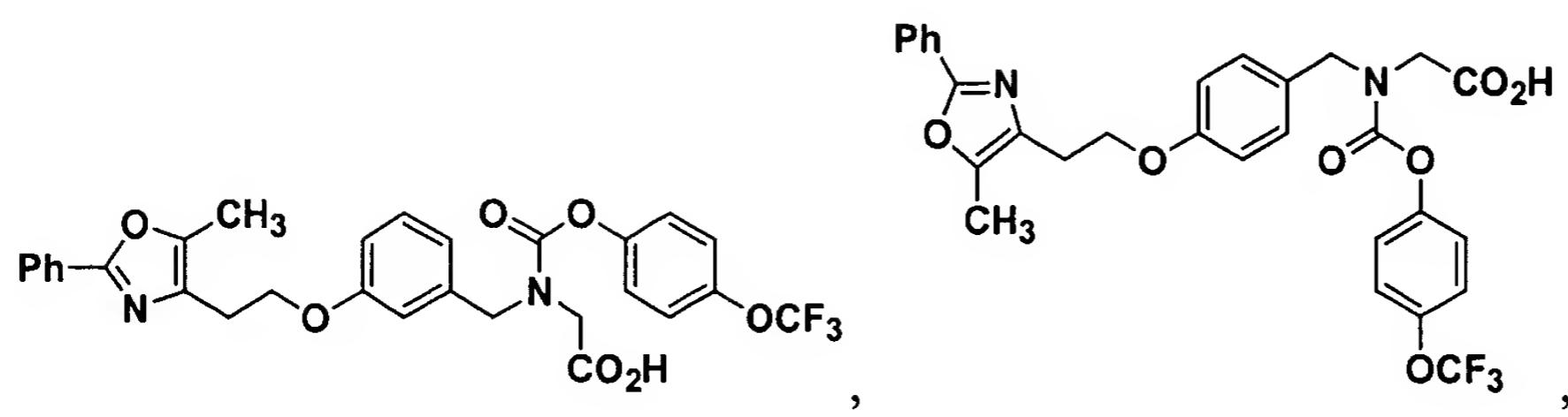
**Claims 18 and 19 (cancelled)**

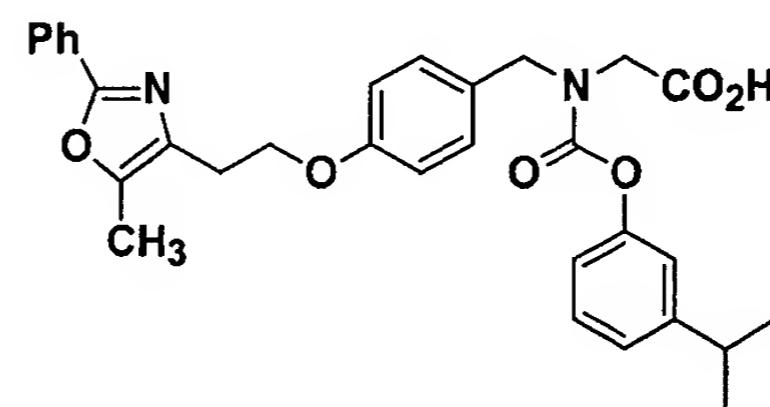
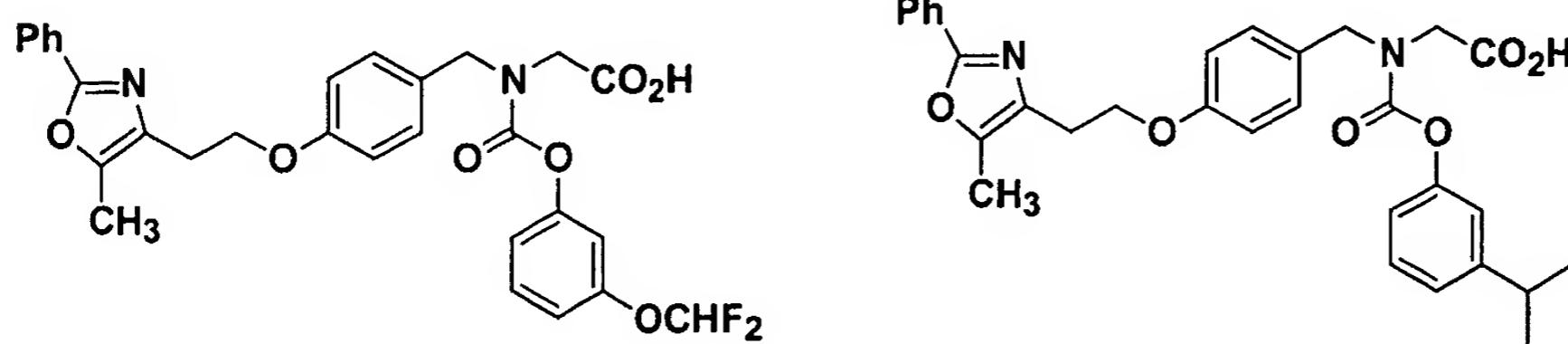
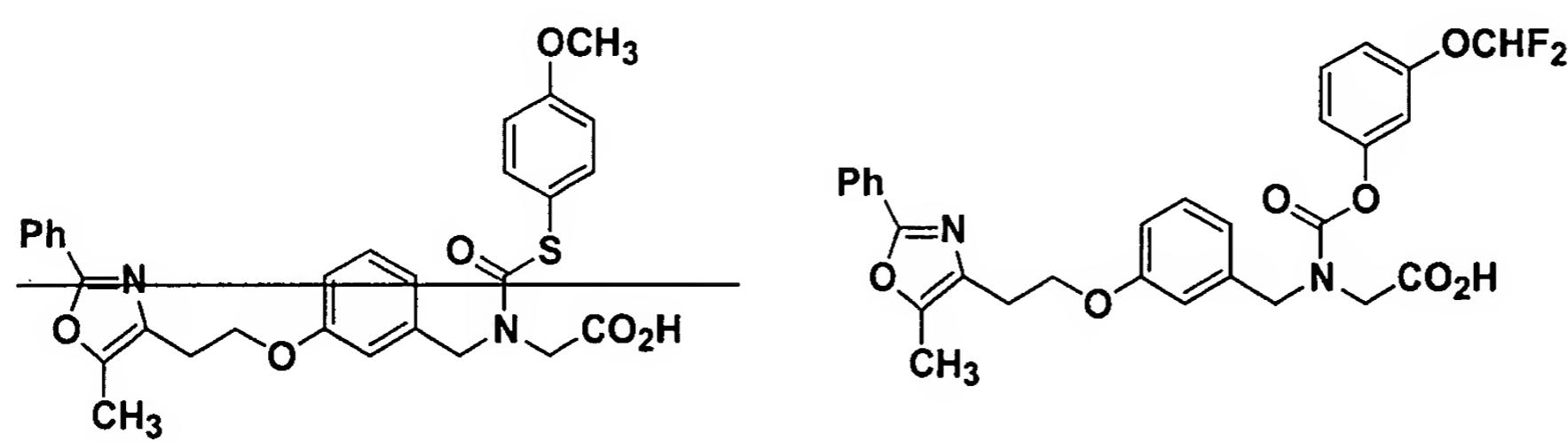
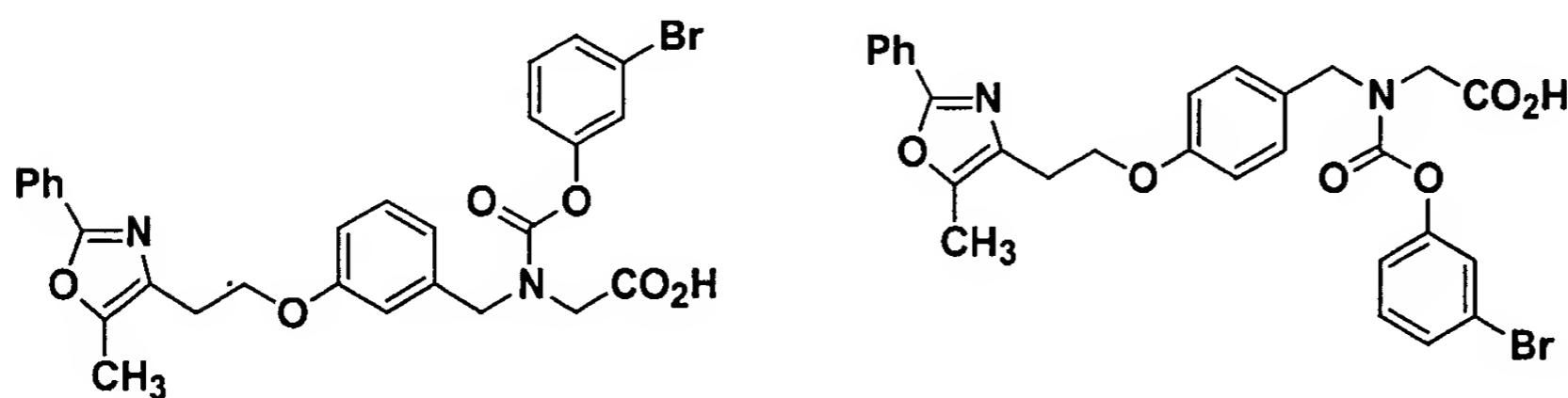
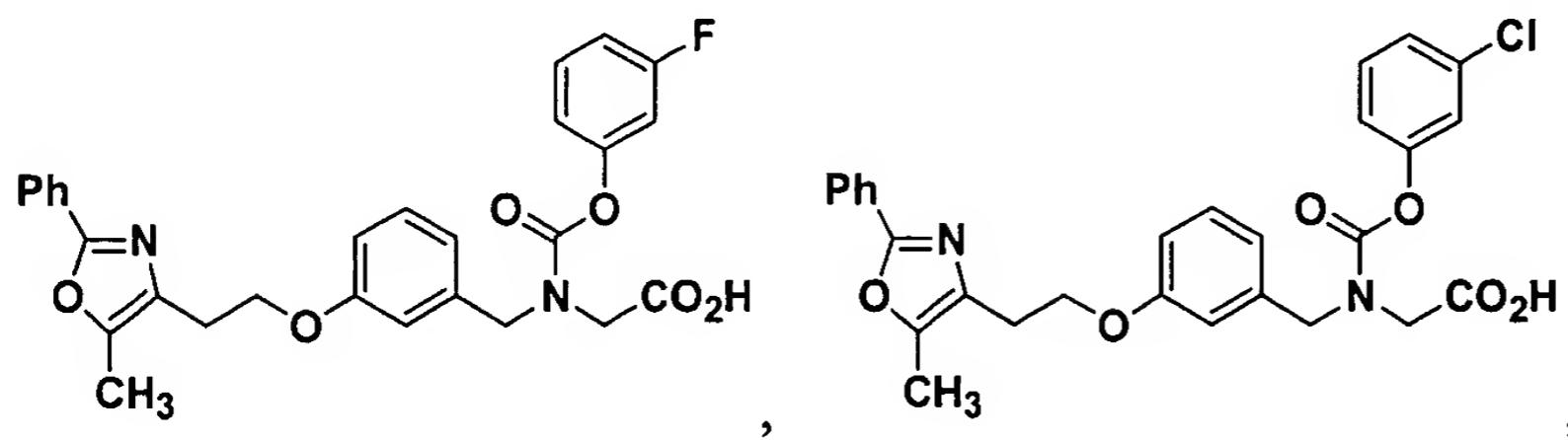
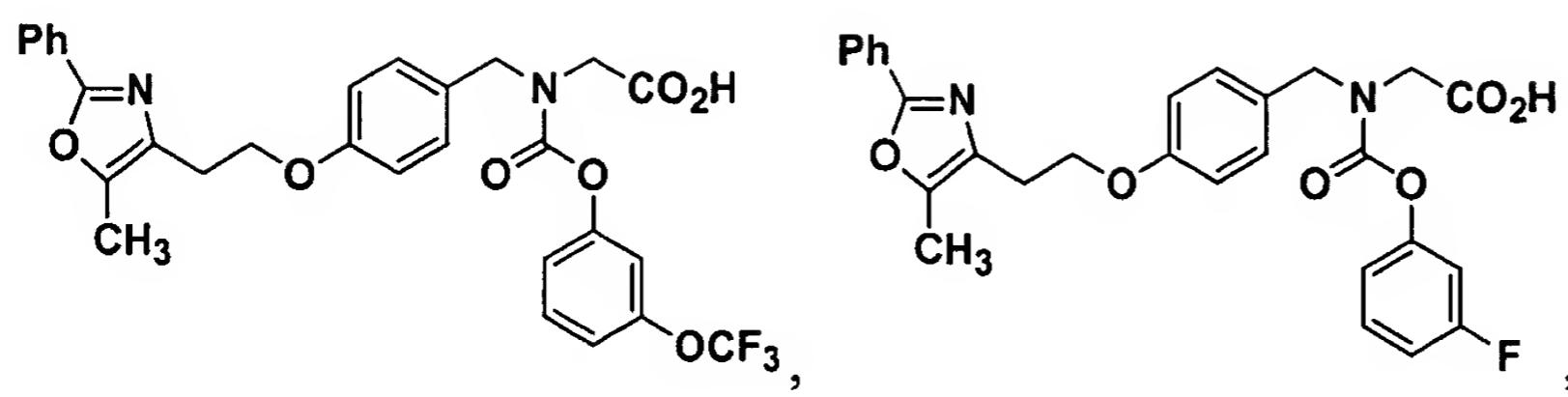
**Claim 20 (currently amended)**

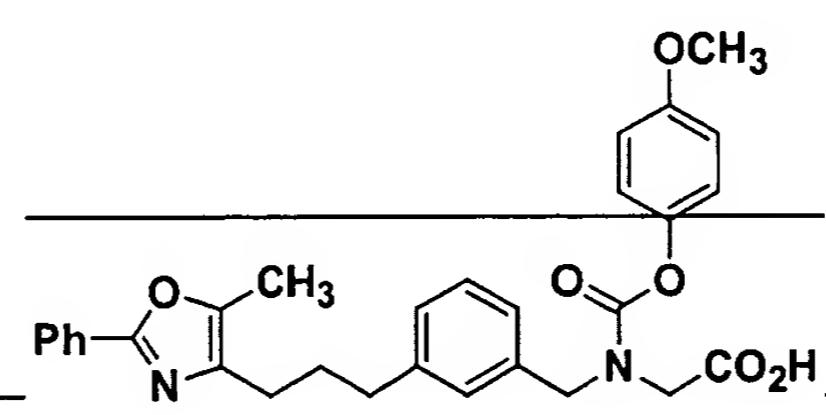
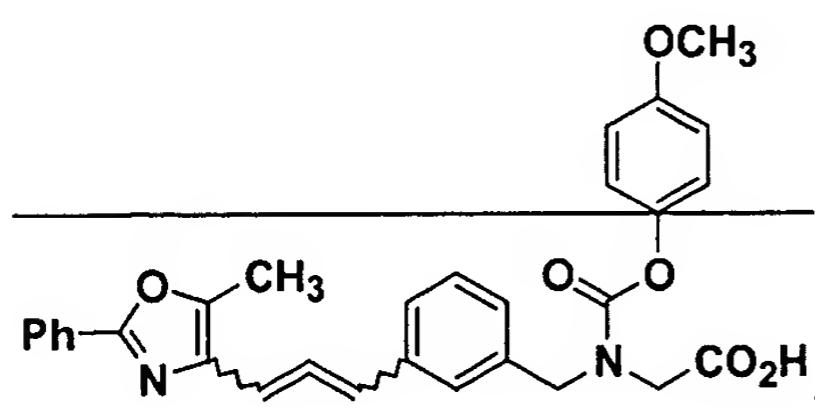
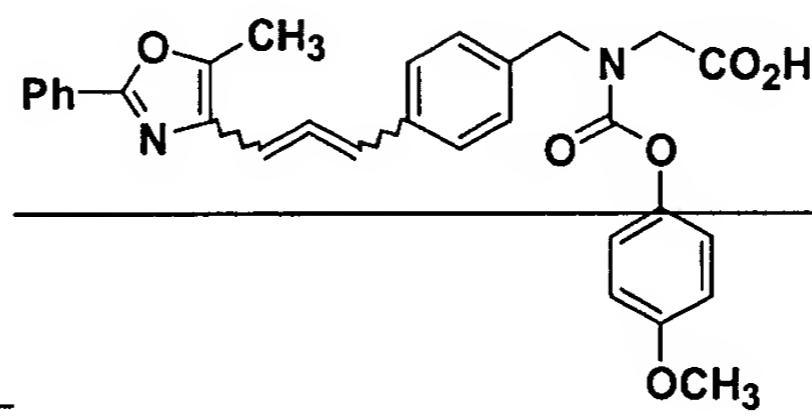
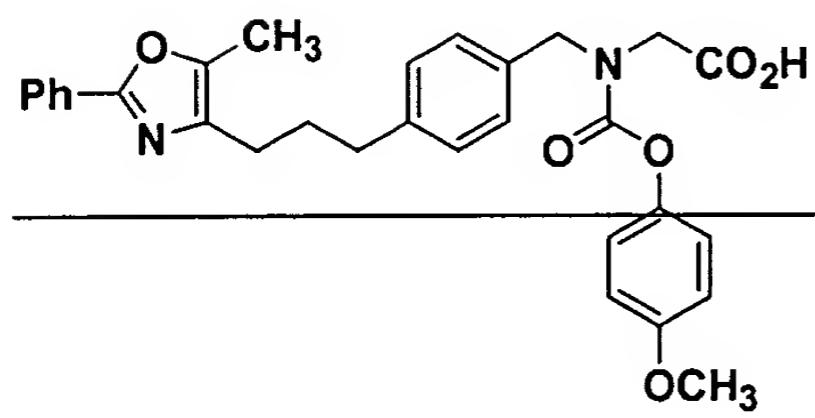
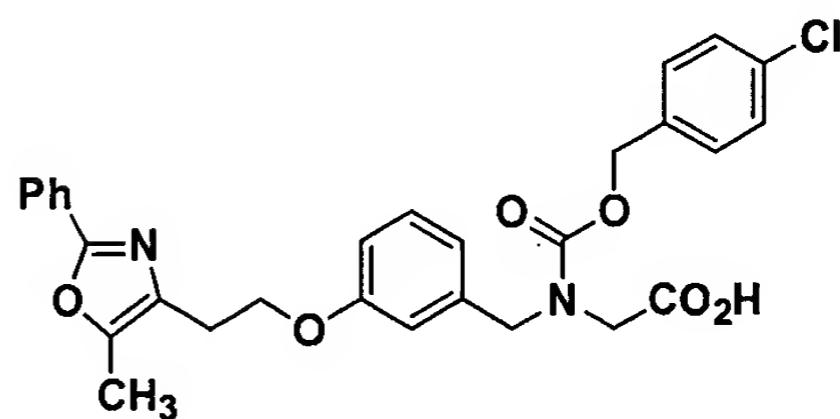
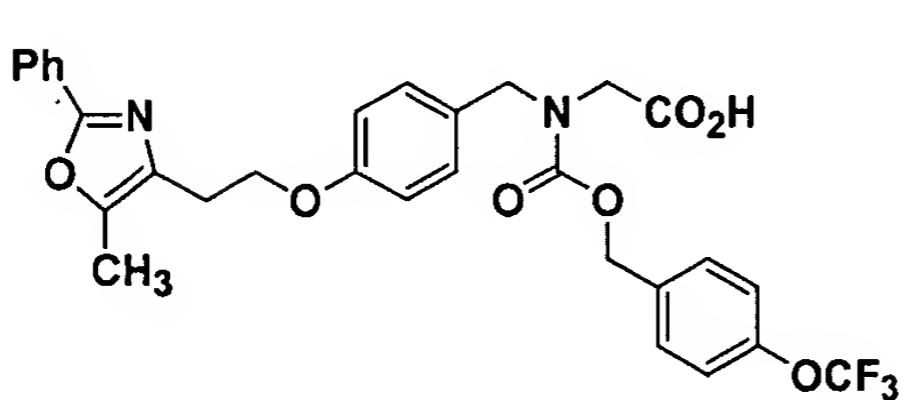
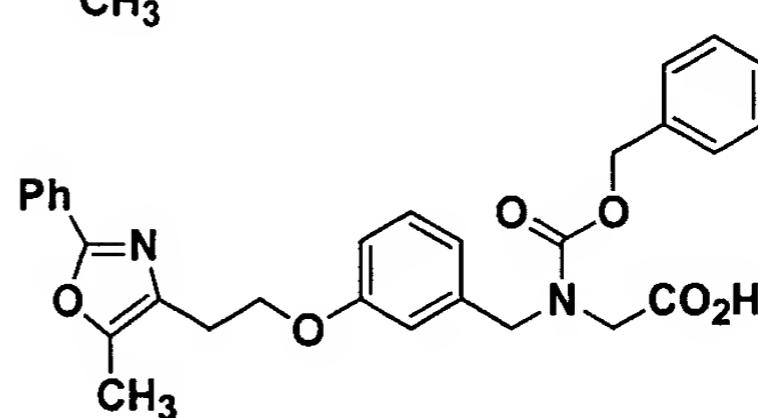
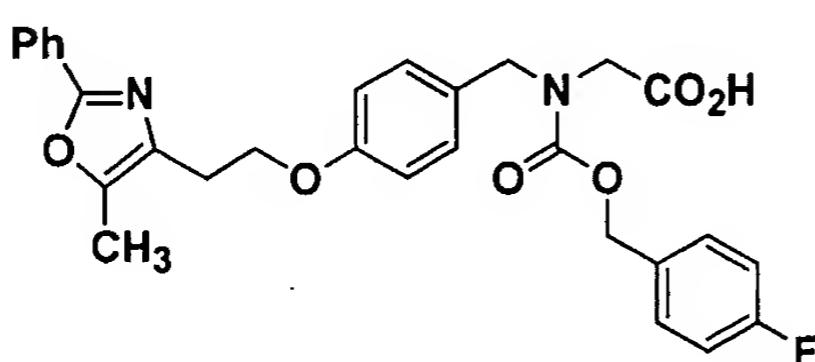
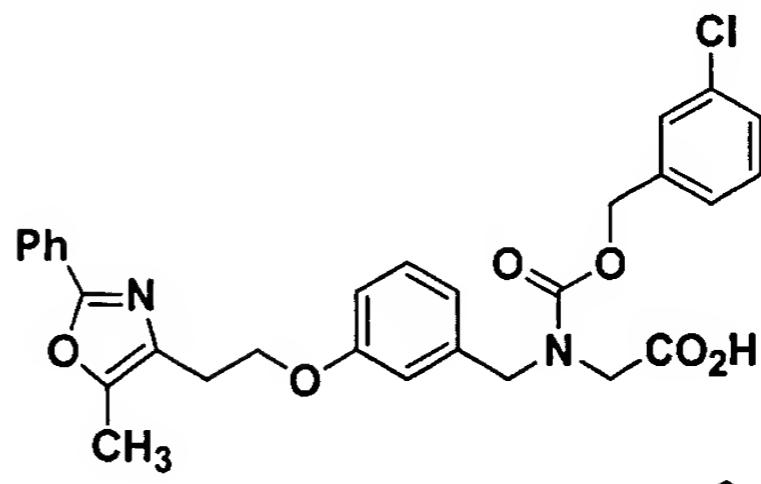
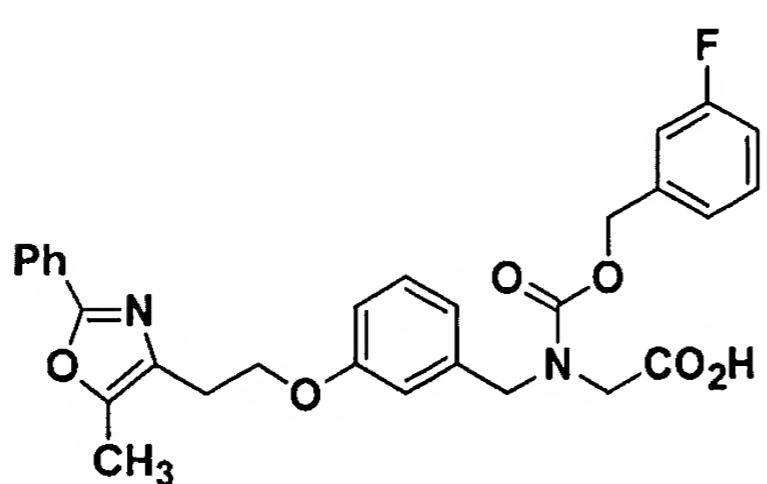
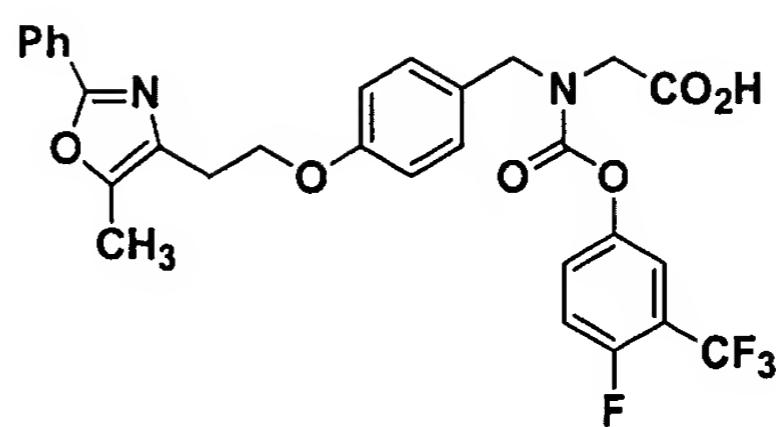
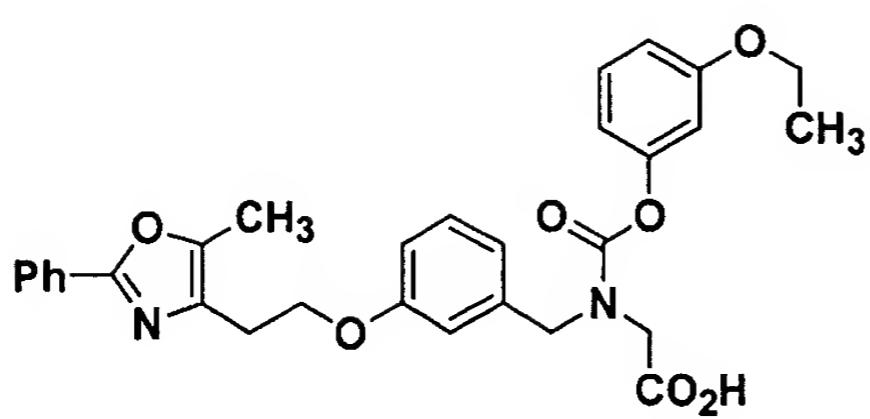
--20. The method as defined in Claim 34 wherein the compound employed has the structure

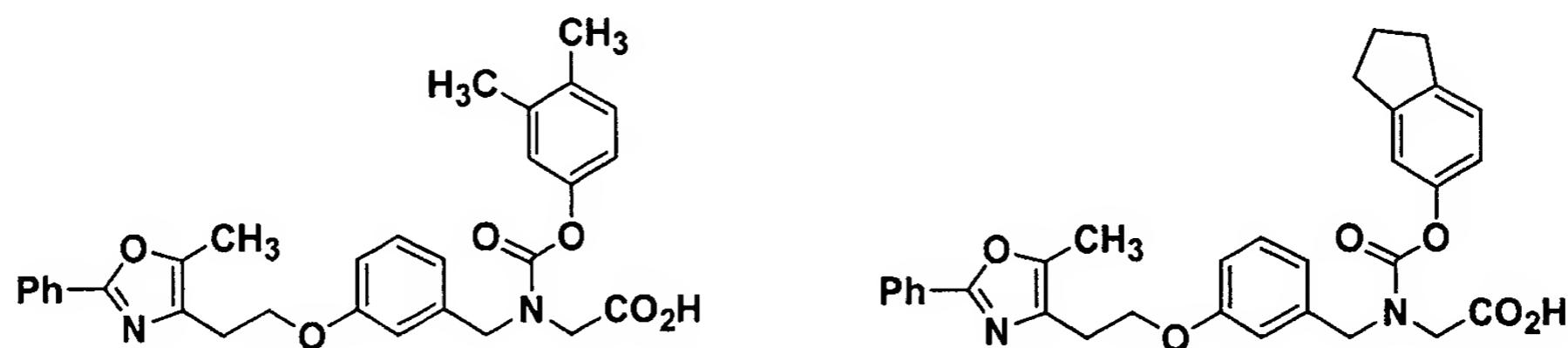
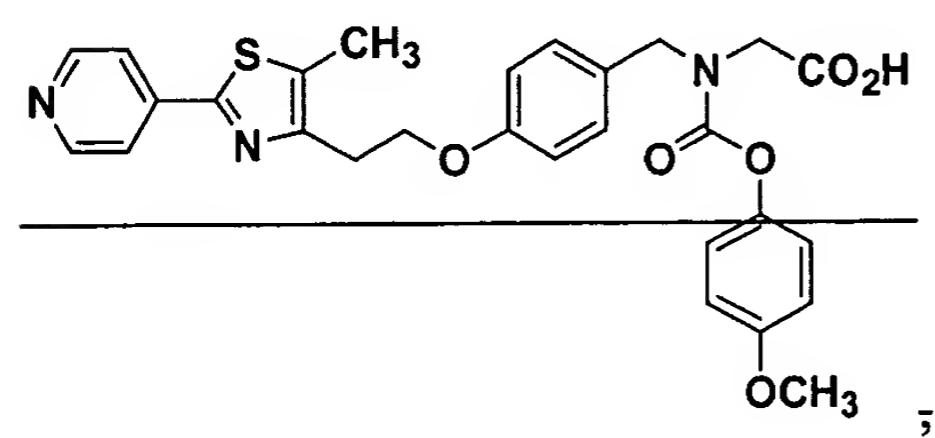
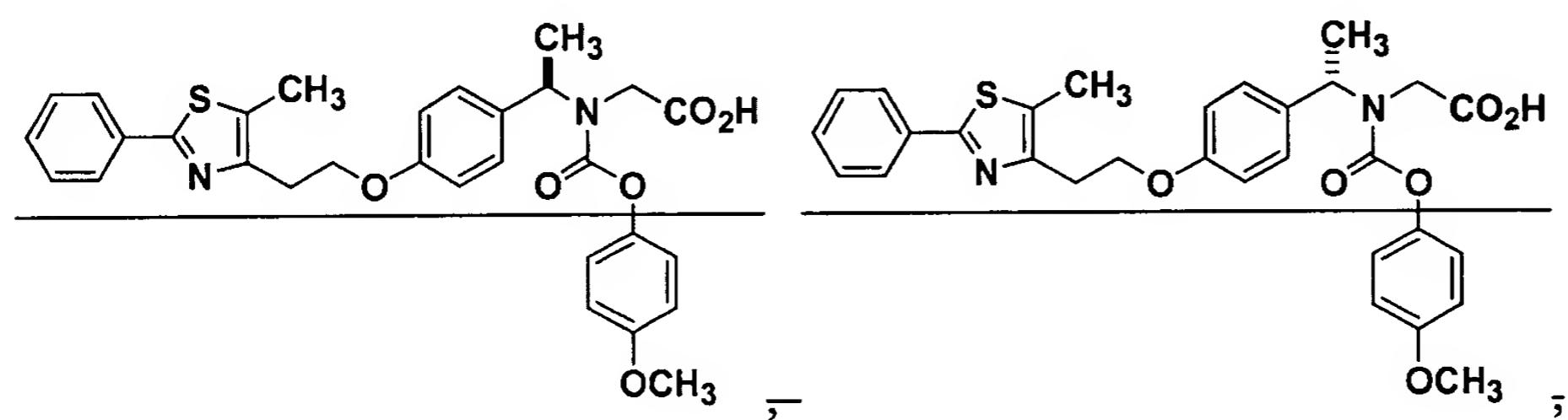
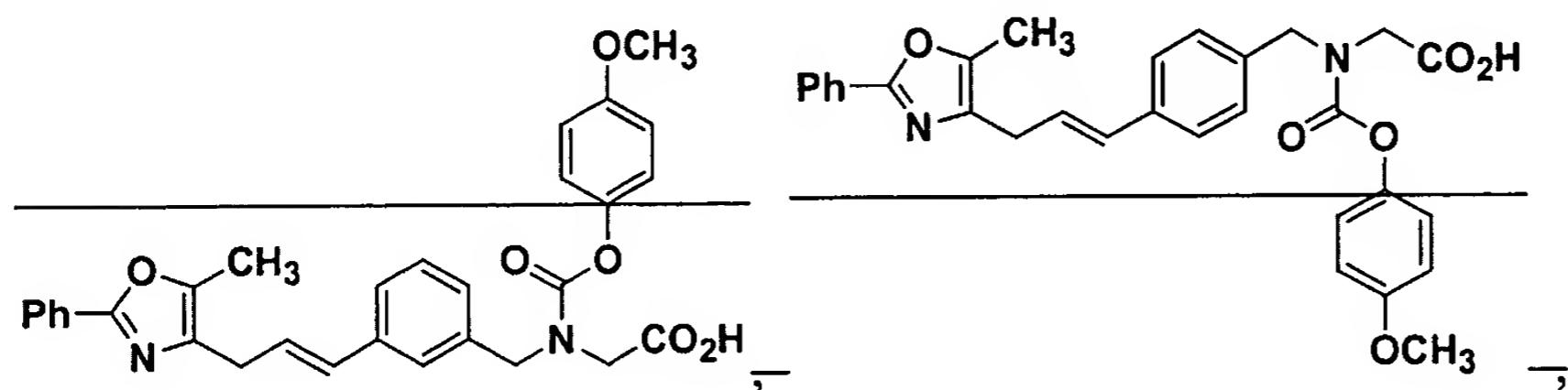
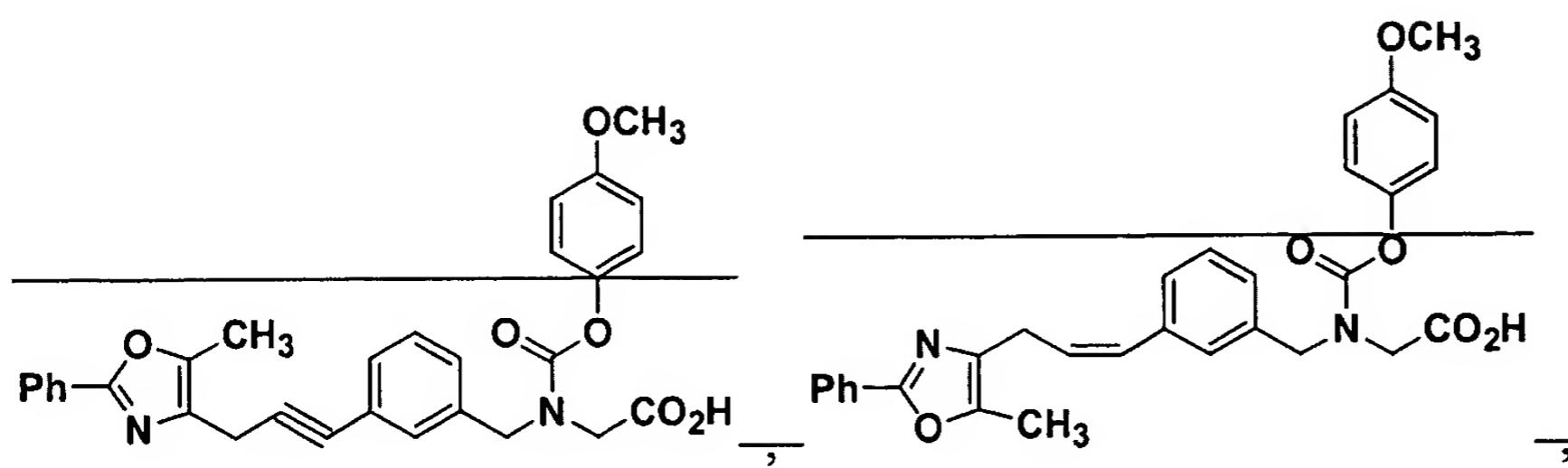


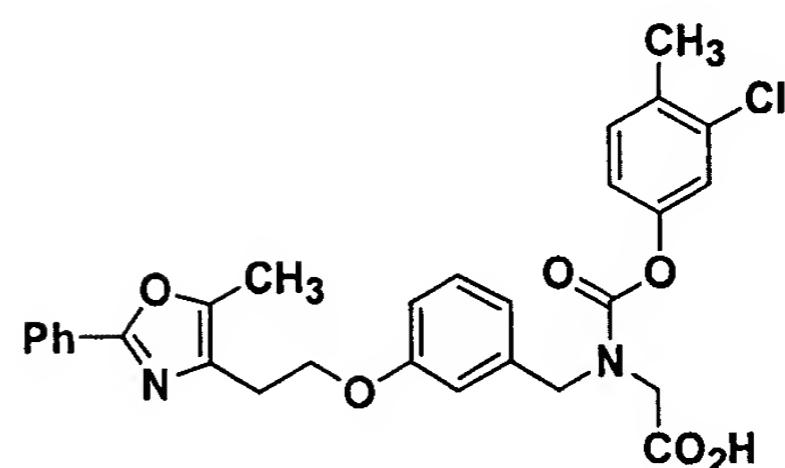
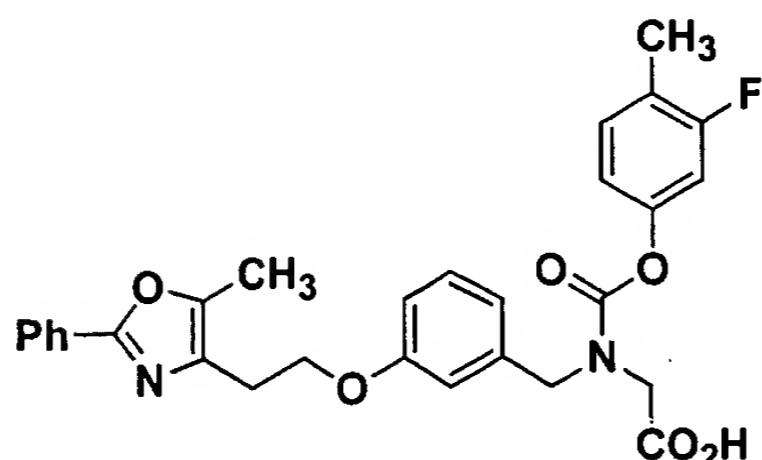
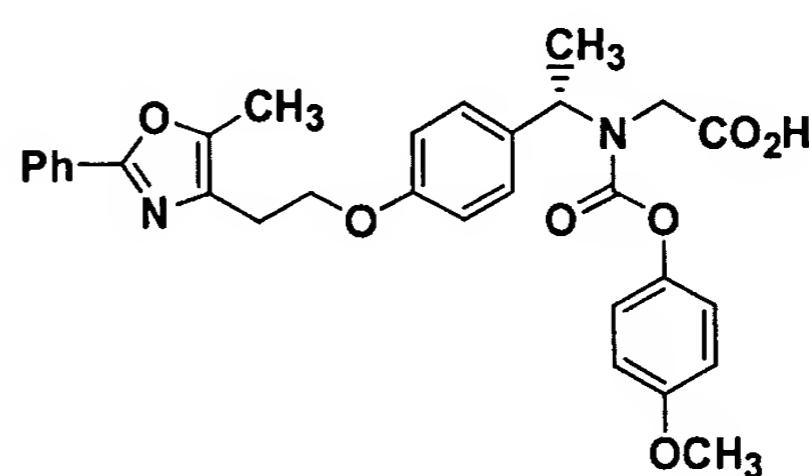
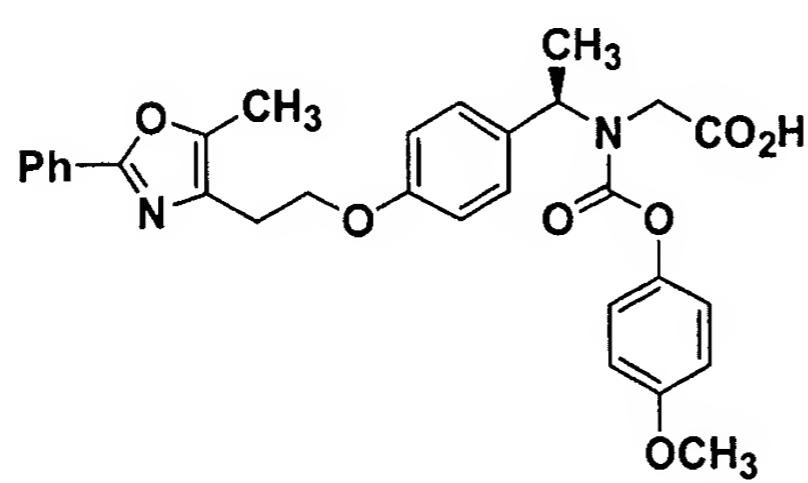
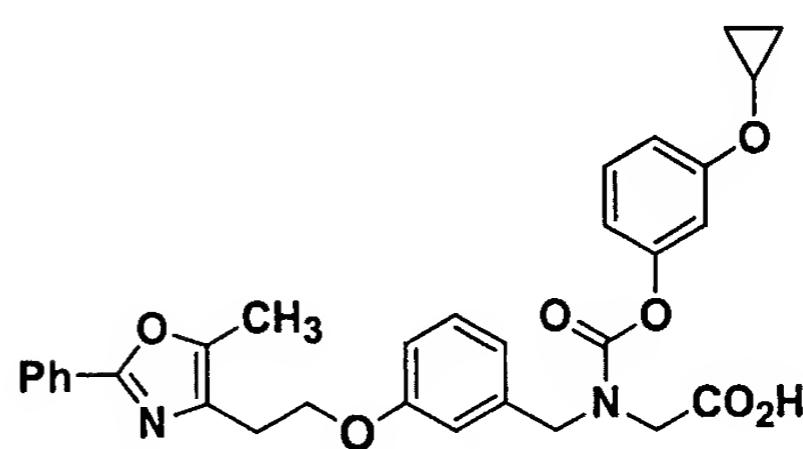
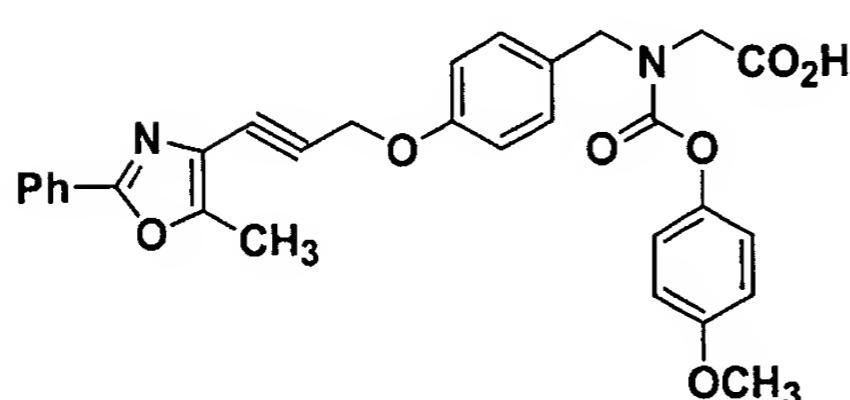
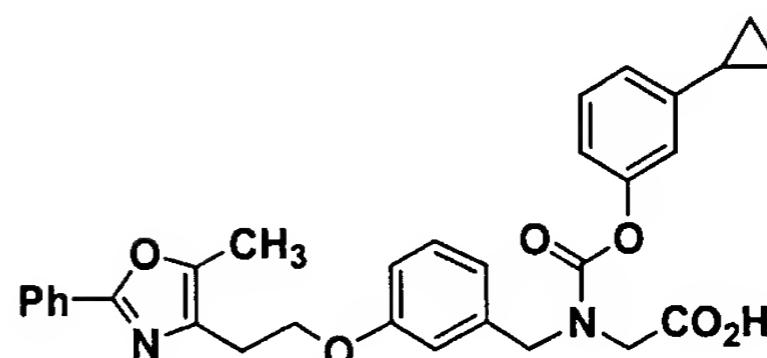
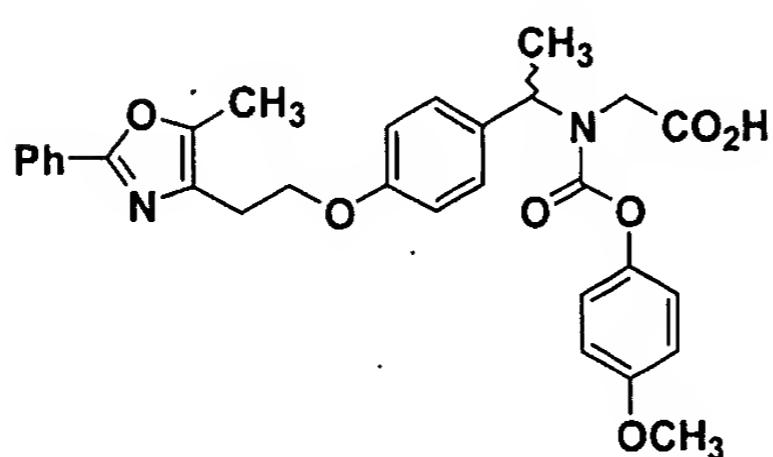
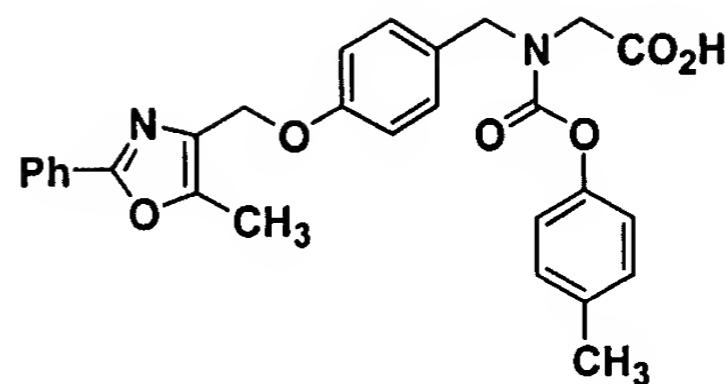
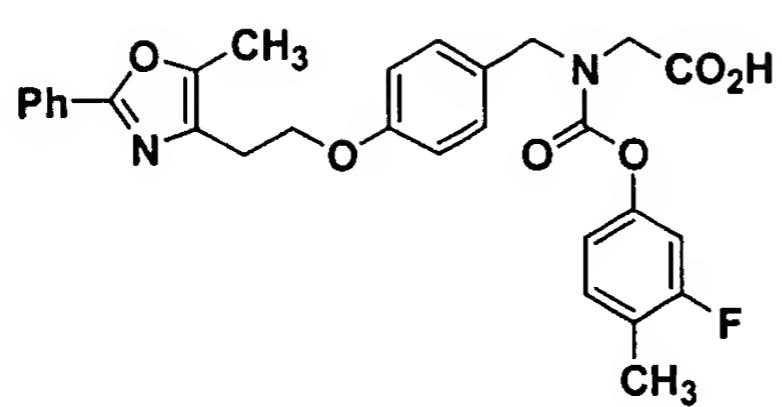


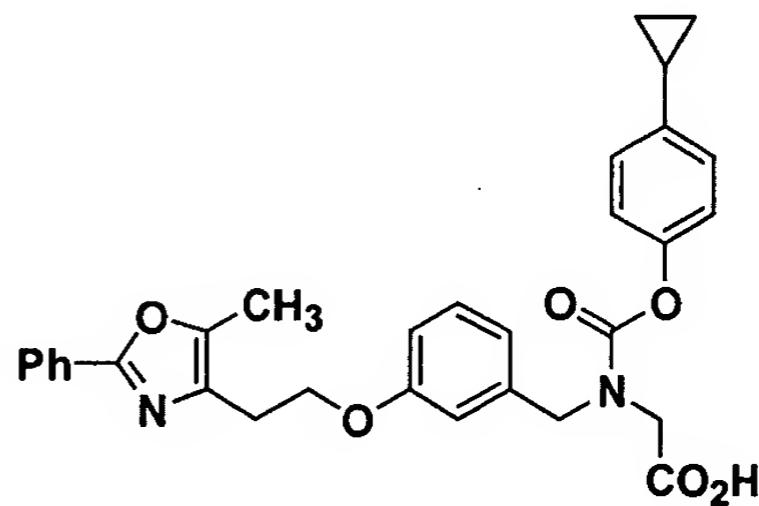
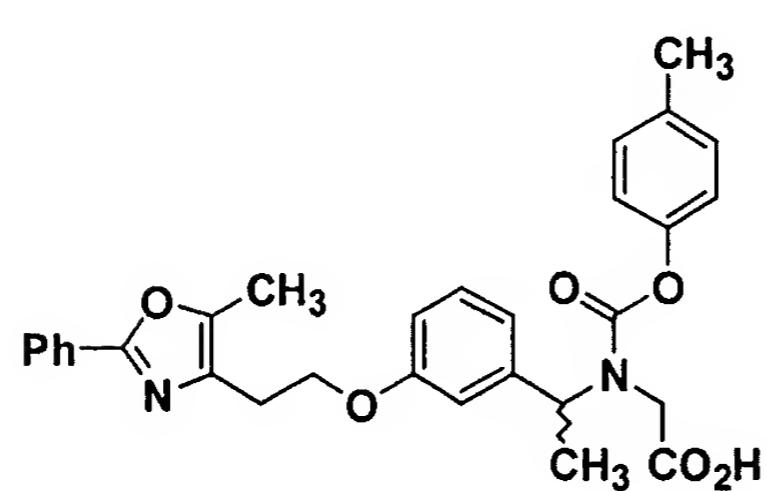
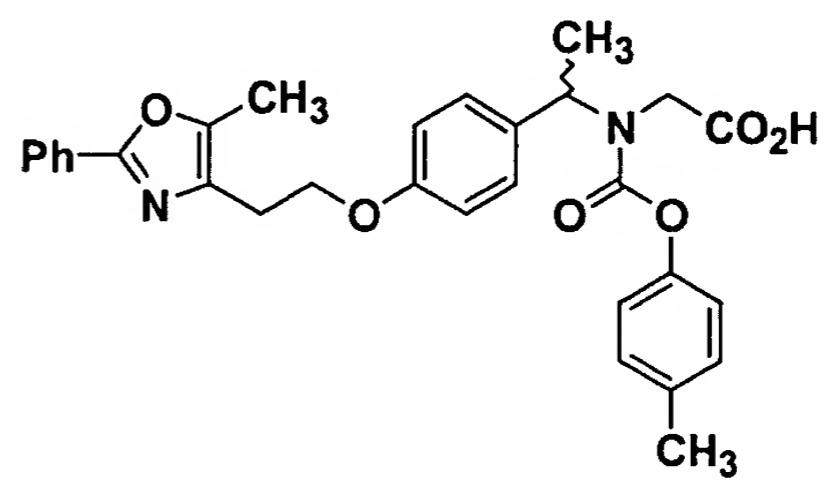
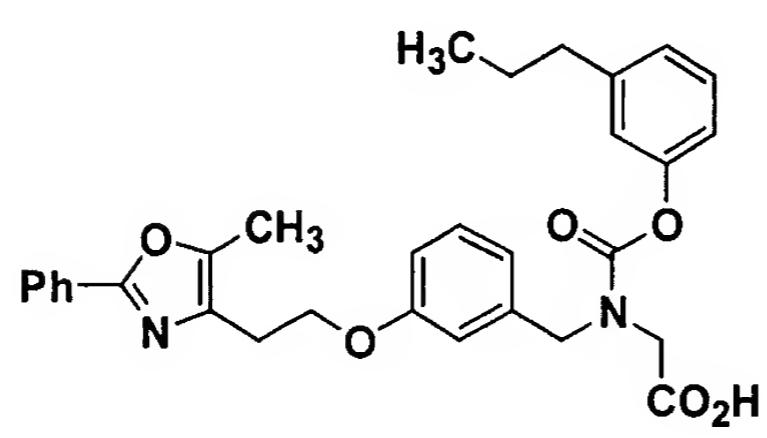
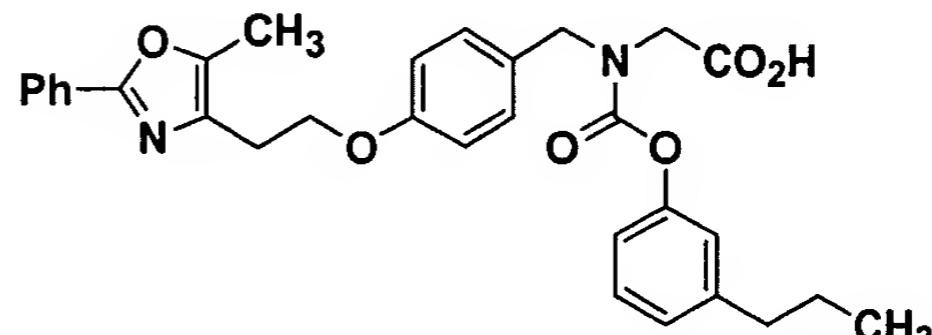
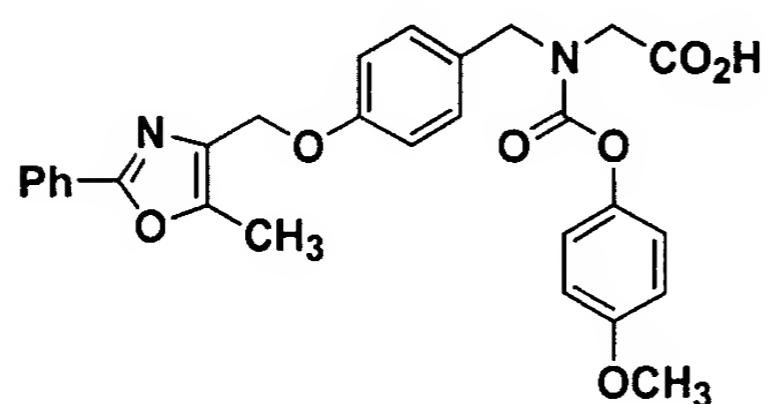
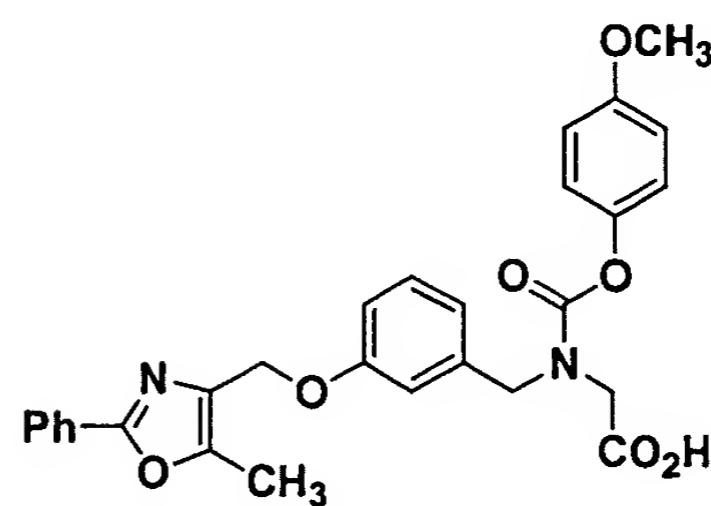
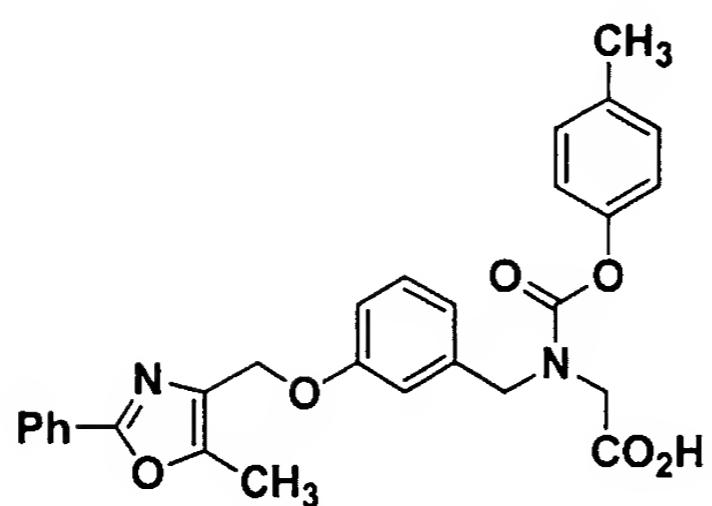
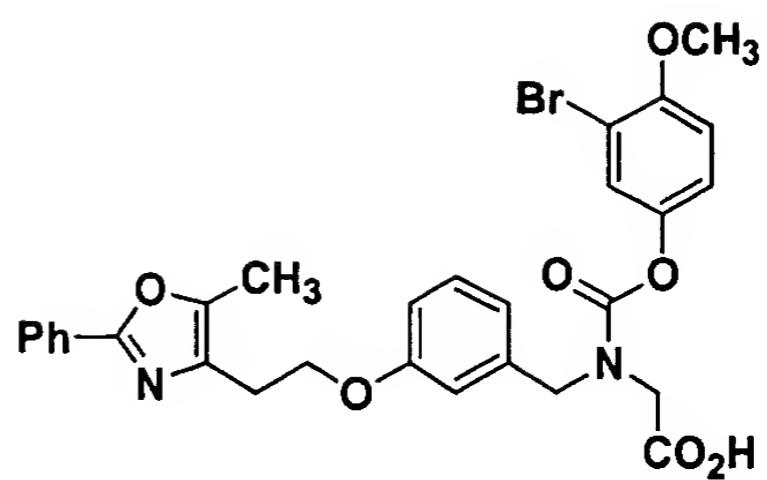
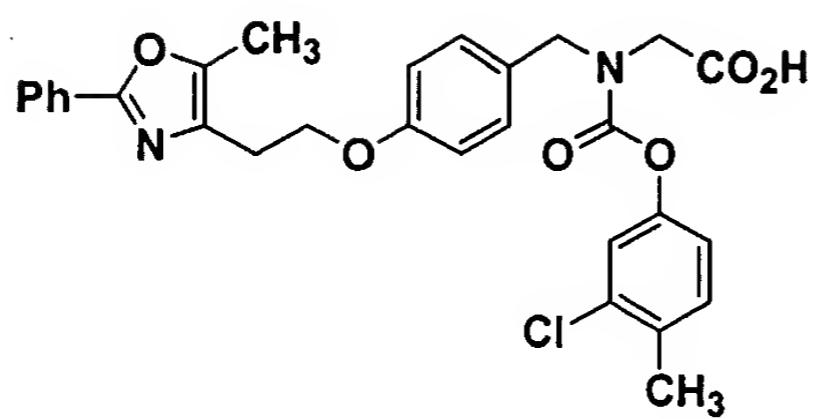


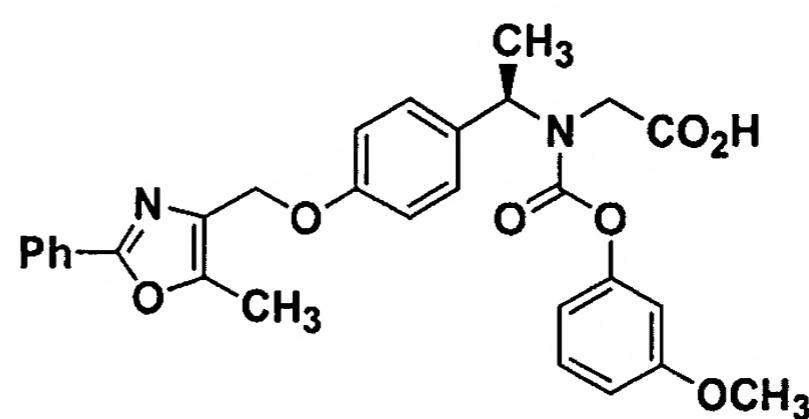
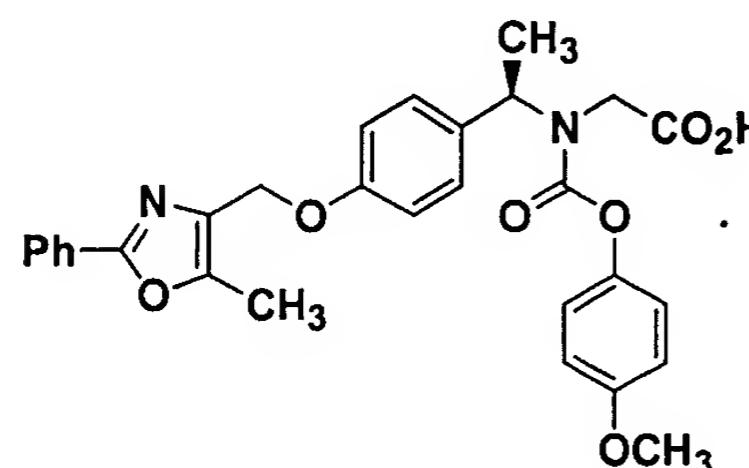
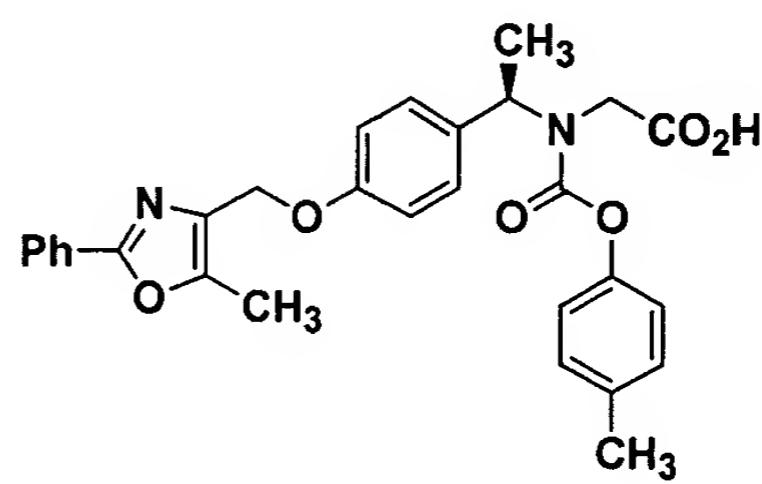
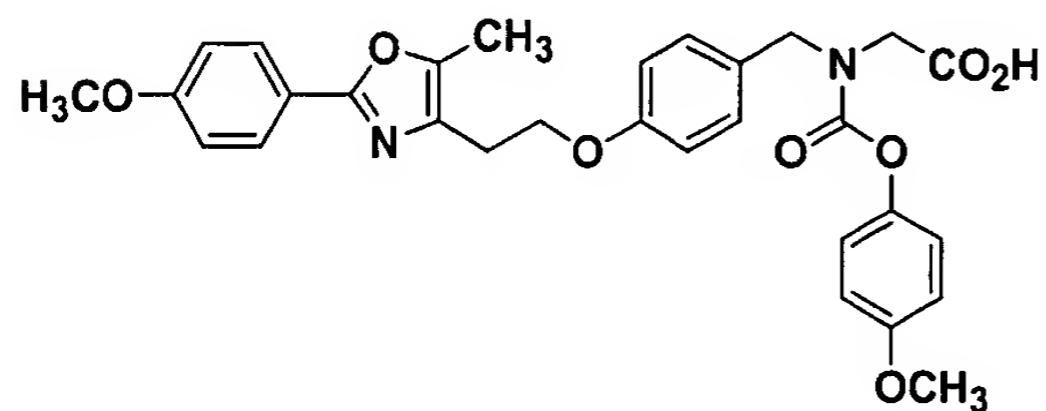
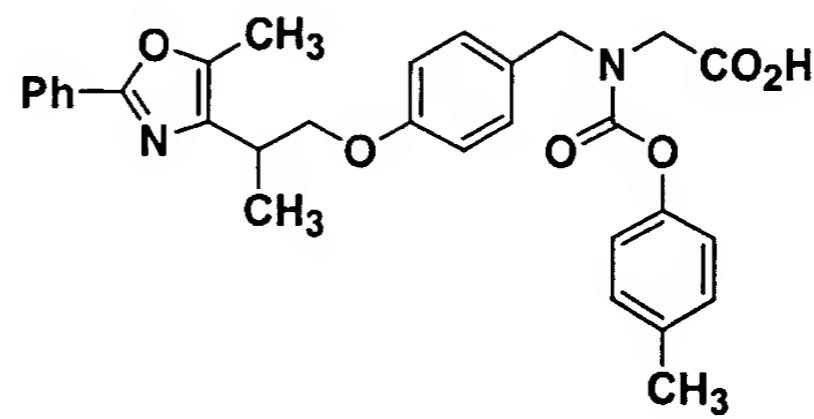
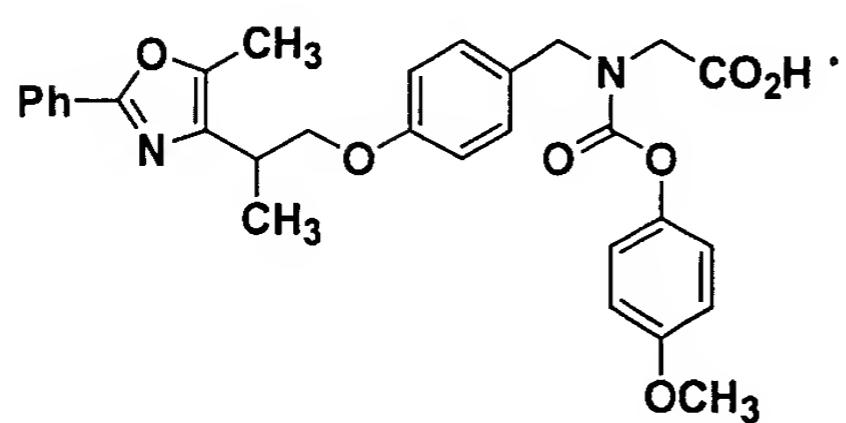
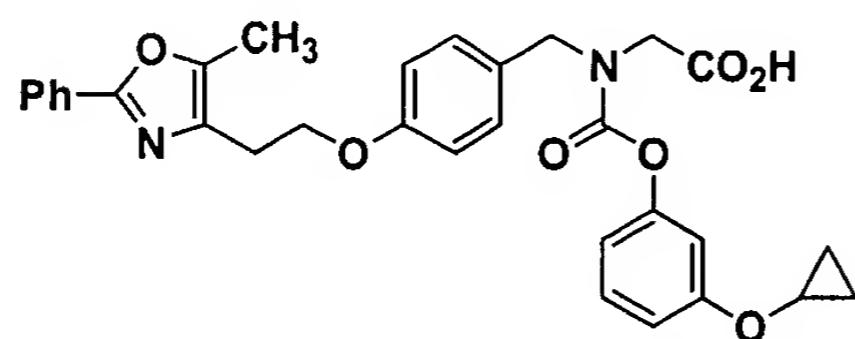
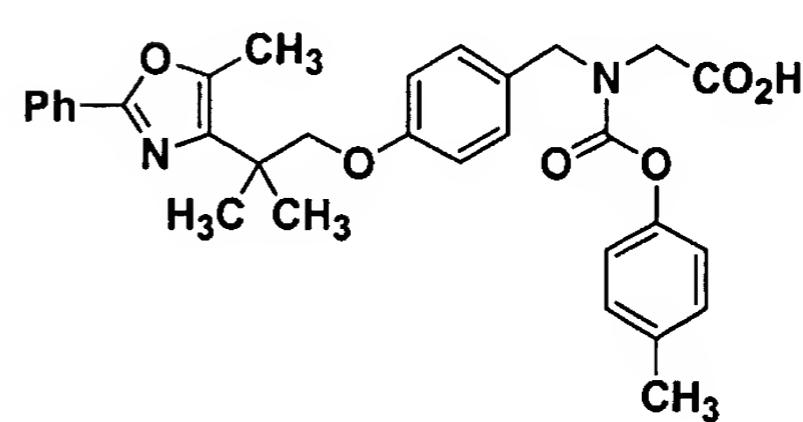
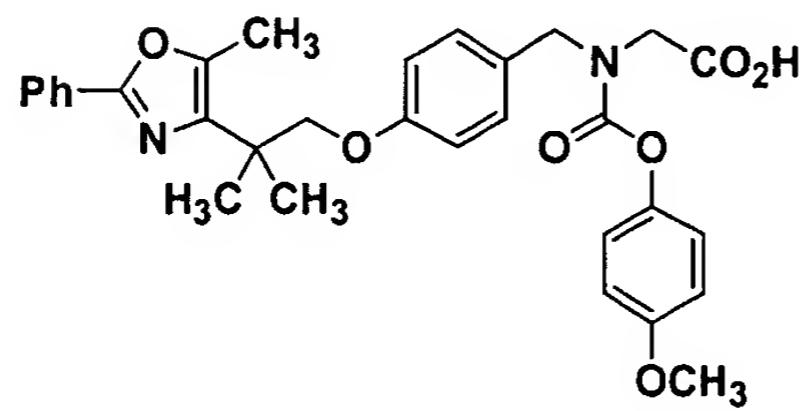
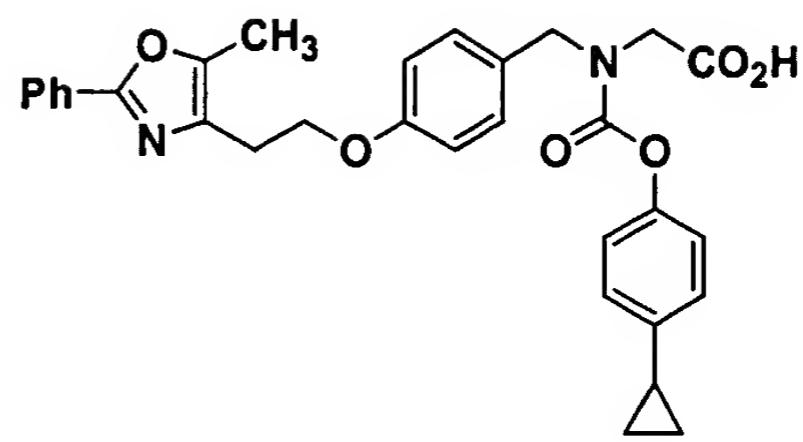
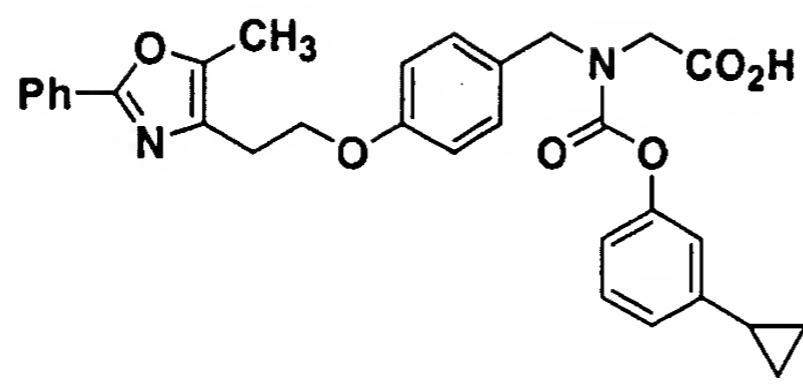


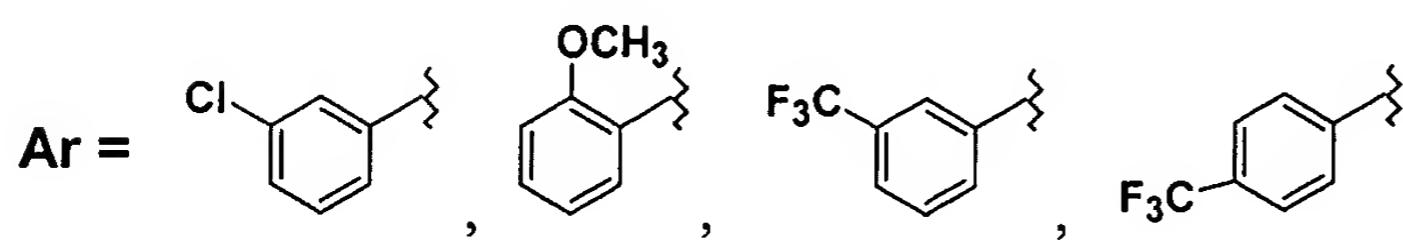
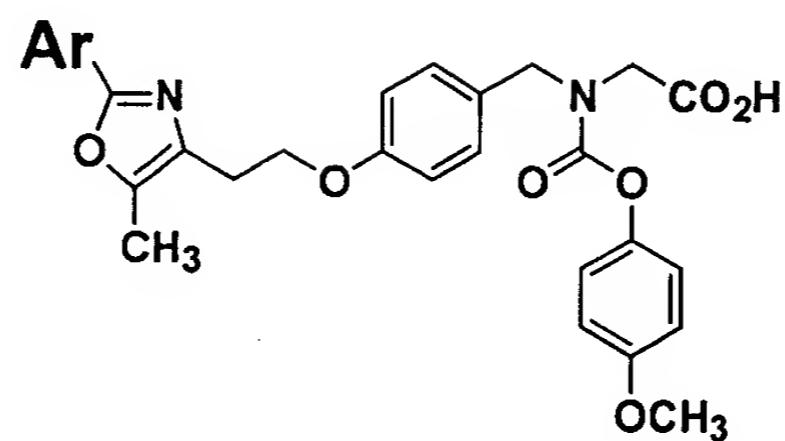
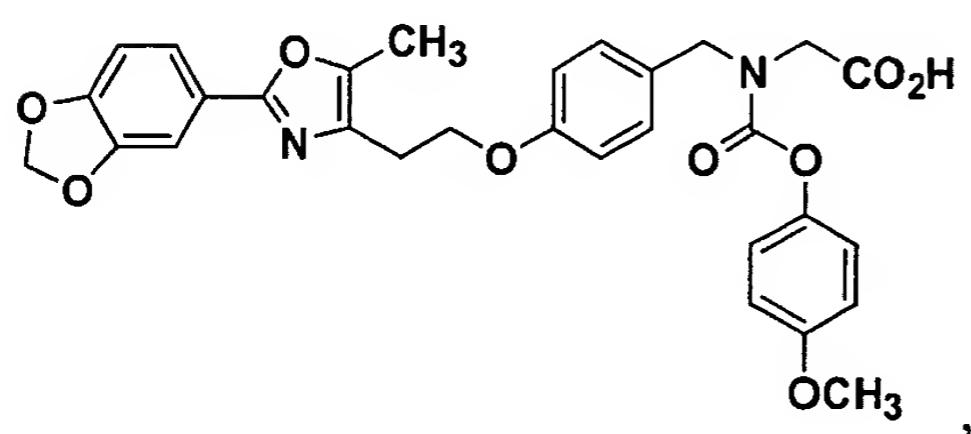
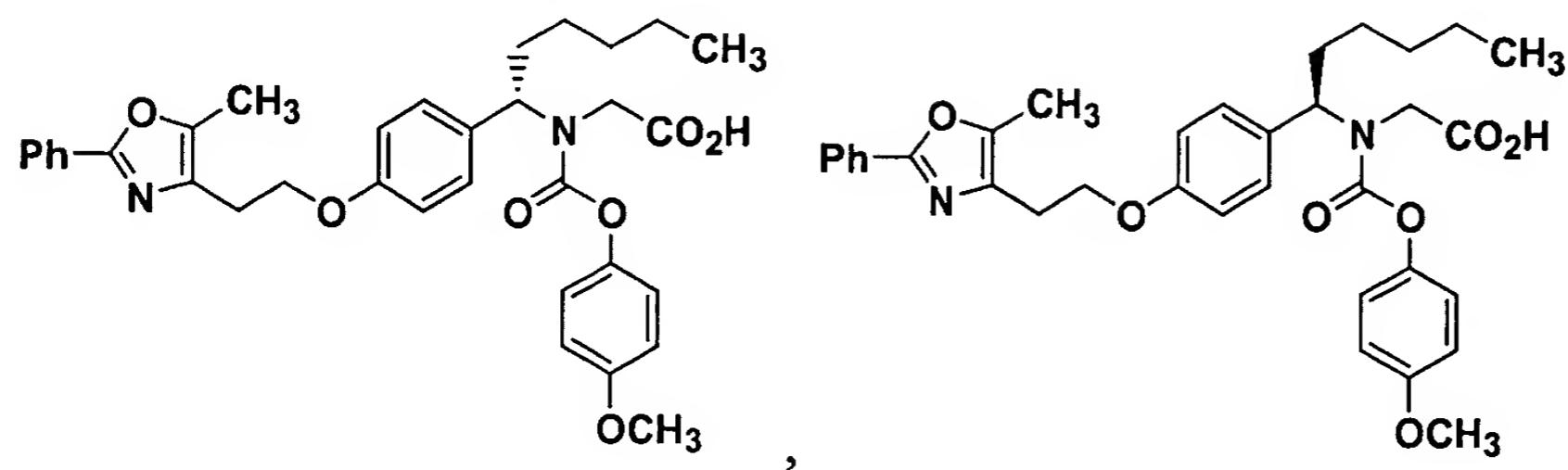
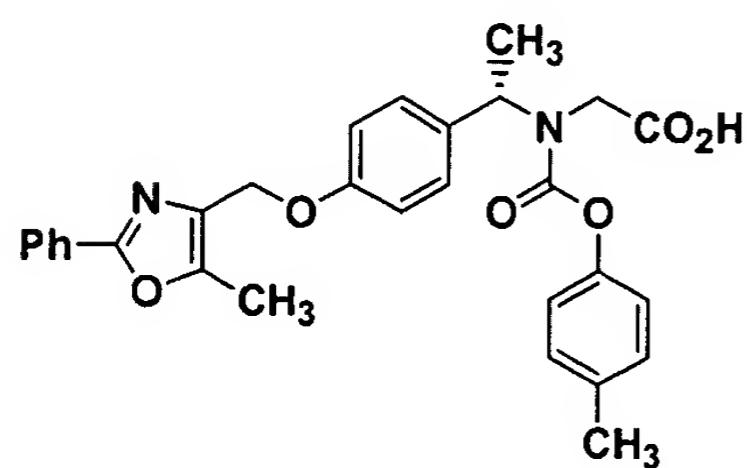
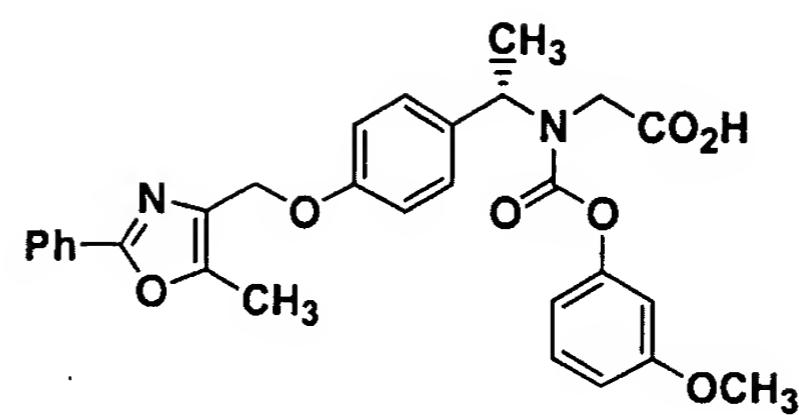
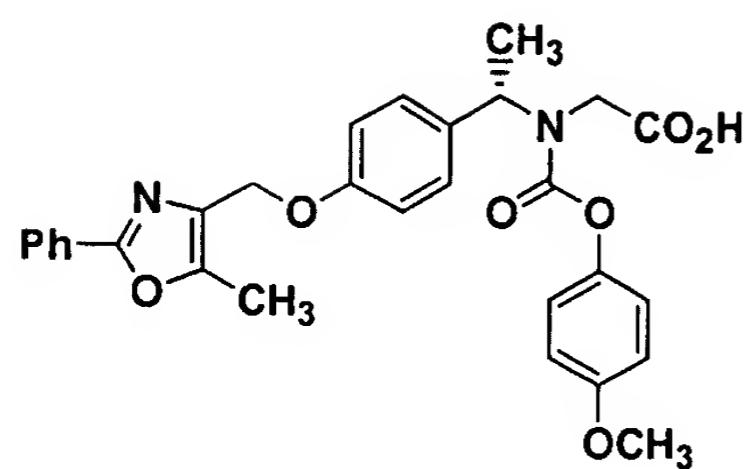


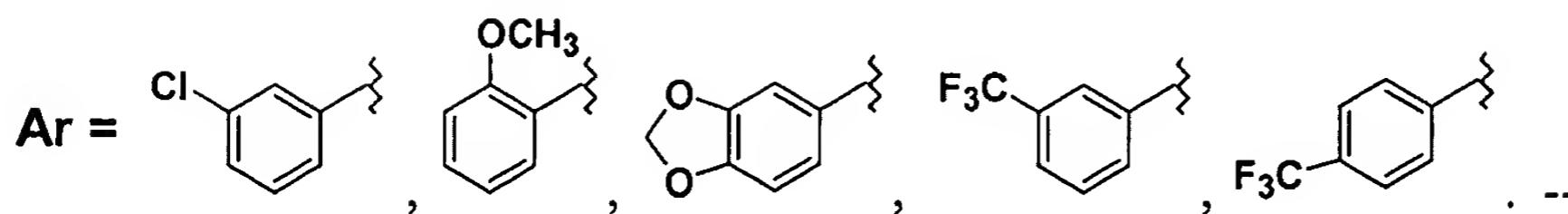
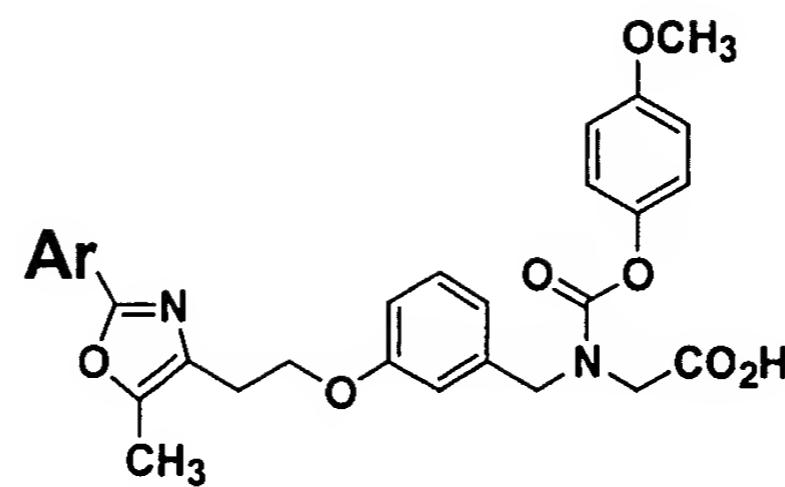






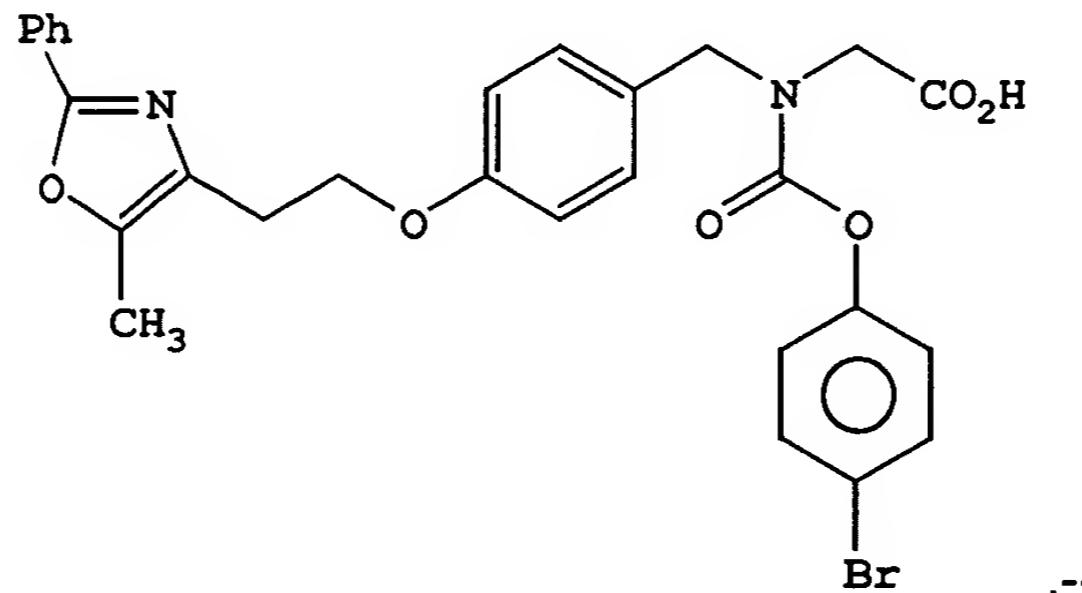






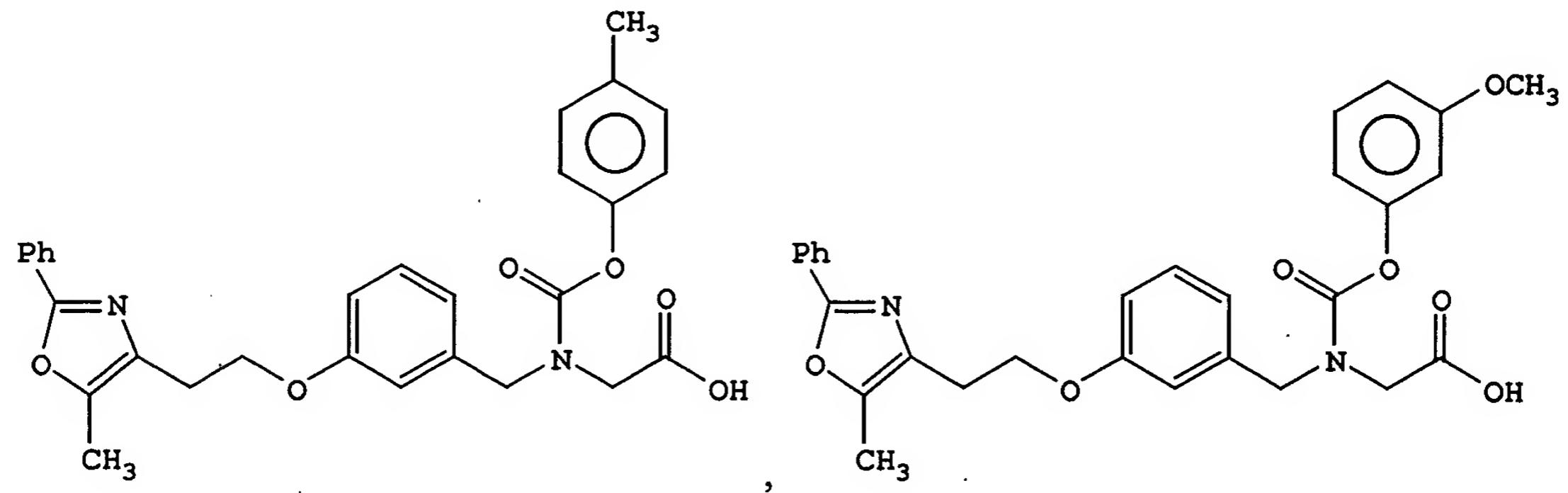
**Claim 21 (previously amended)**

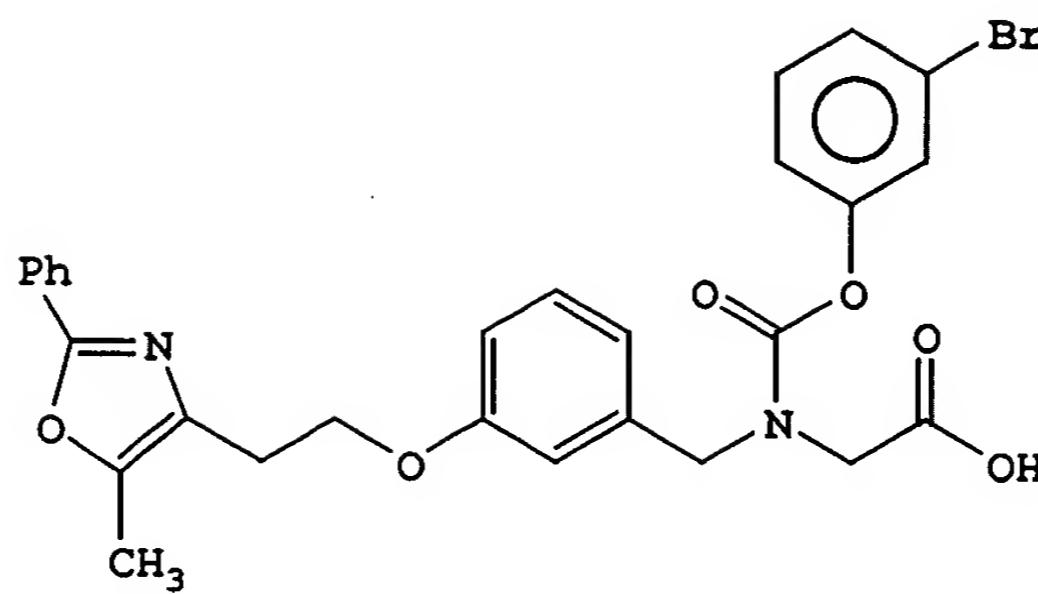
--21. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 22 (previously amended)**

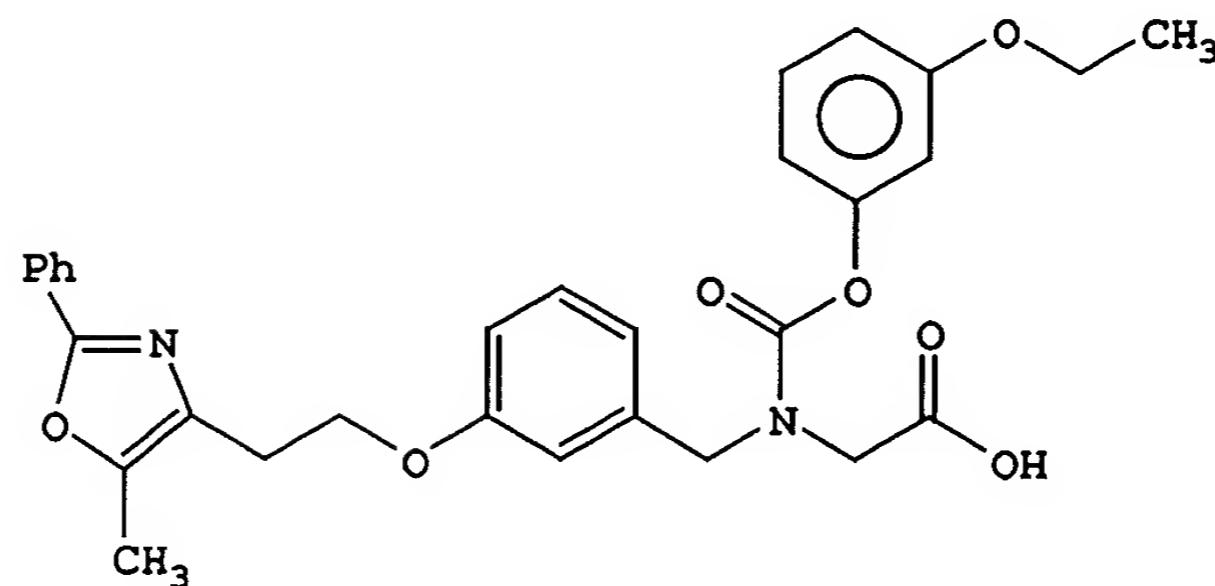
--22. The method as defined in Claim 55 wherein the compound employed has the structure





,

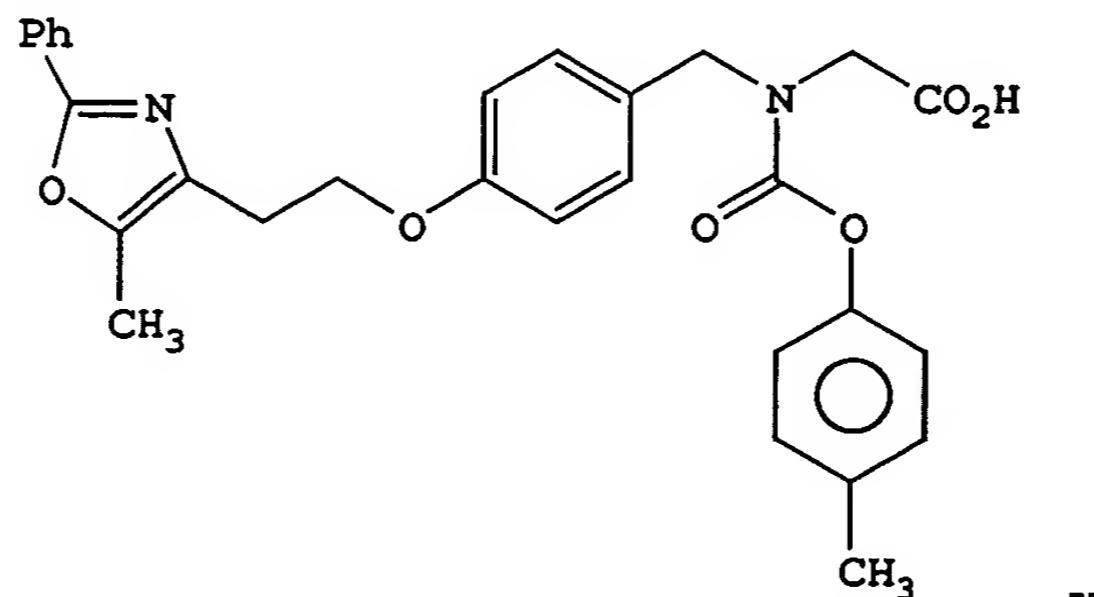
or



**Claims 23 to 25 (cancelled)**

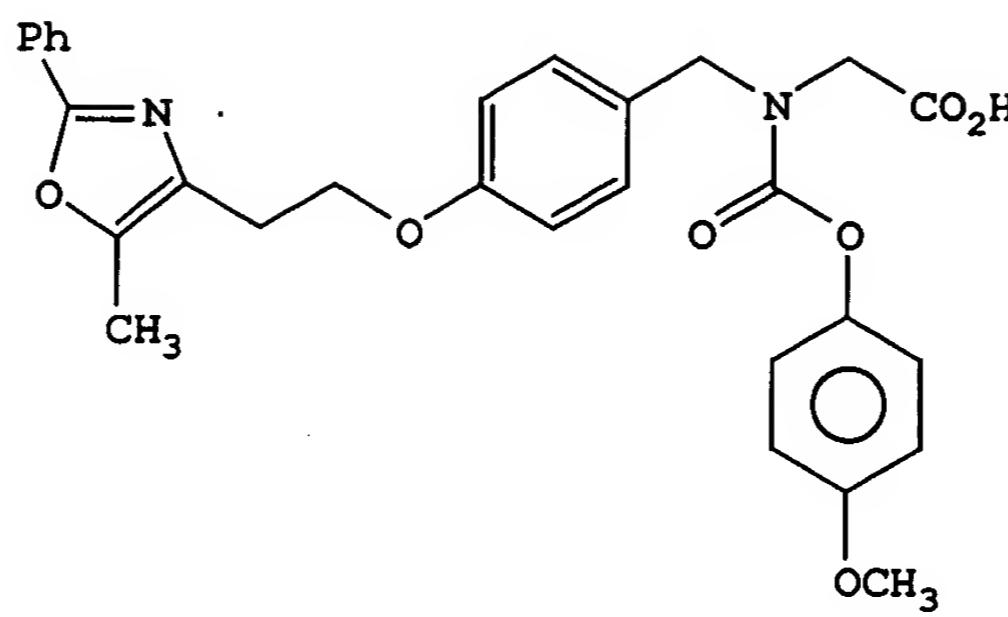
**Claim 26 (previously amended)**

--26. The method as defined in Claim 55 wherein the compound employed has the structure



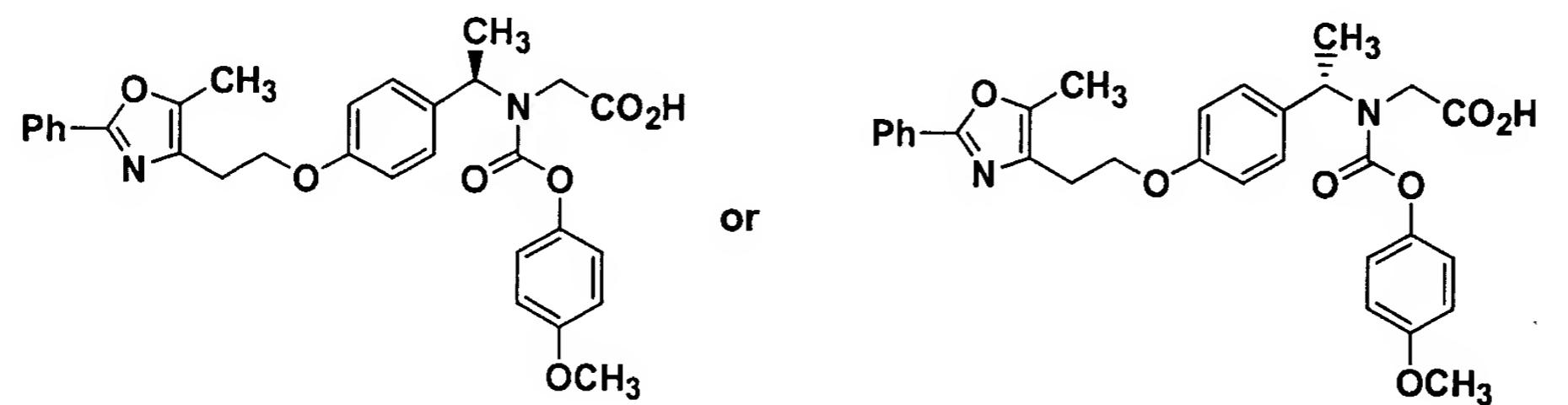
**Claim 27 (previously amended)**

--27. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 28 (previously amended)**

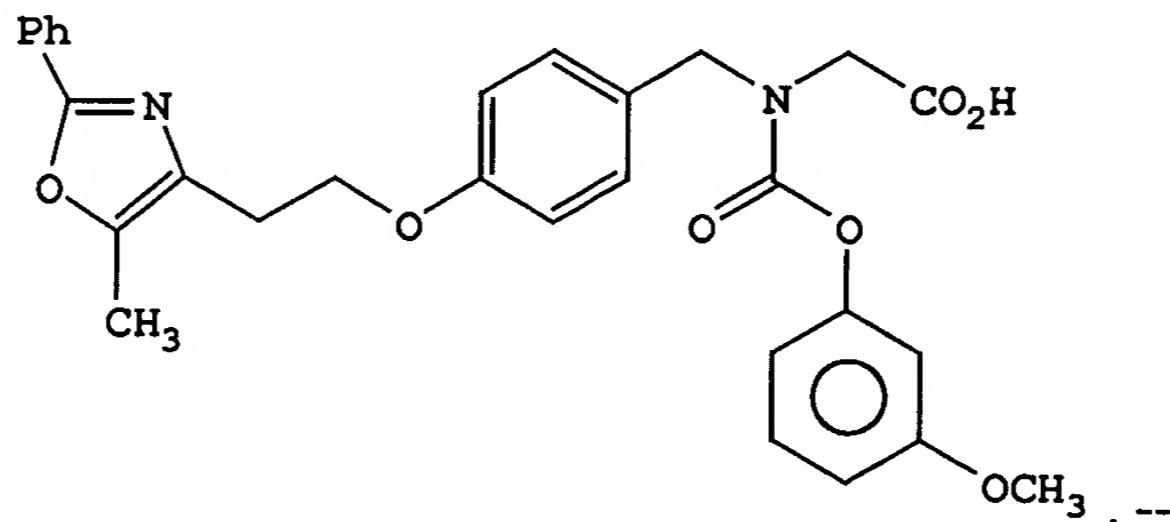
--28. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 29 (cancelled)**

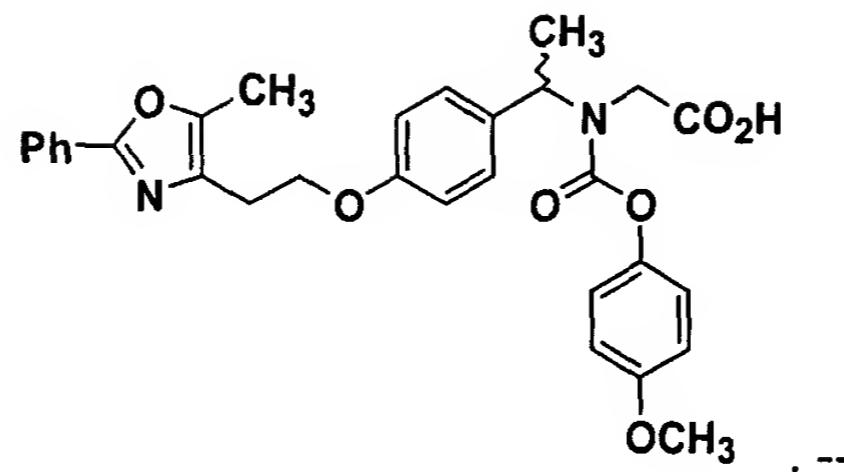
**Claim 30 (previously amended)**

--30. The method as defined in Claim 55 wherein the compound employed has the structure



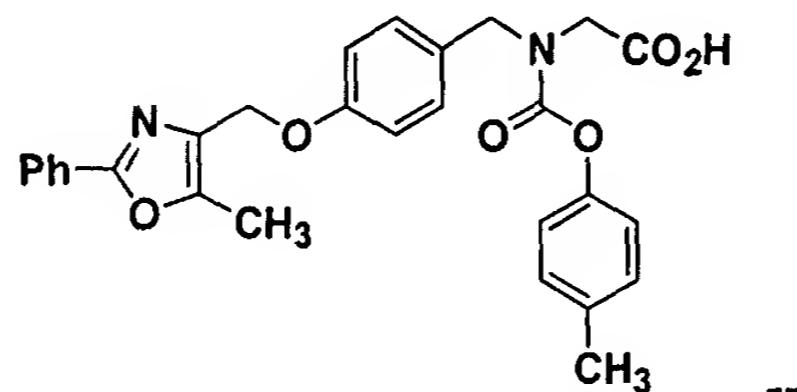
**Claim 31 (previously amended)**

--31. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 32 (previously amended)**

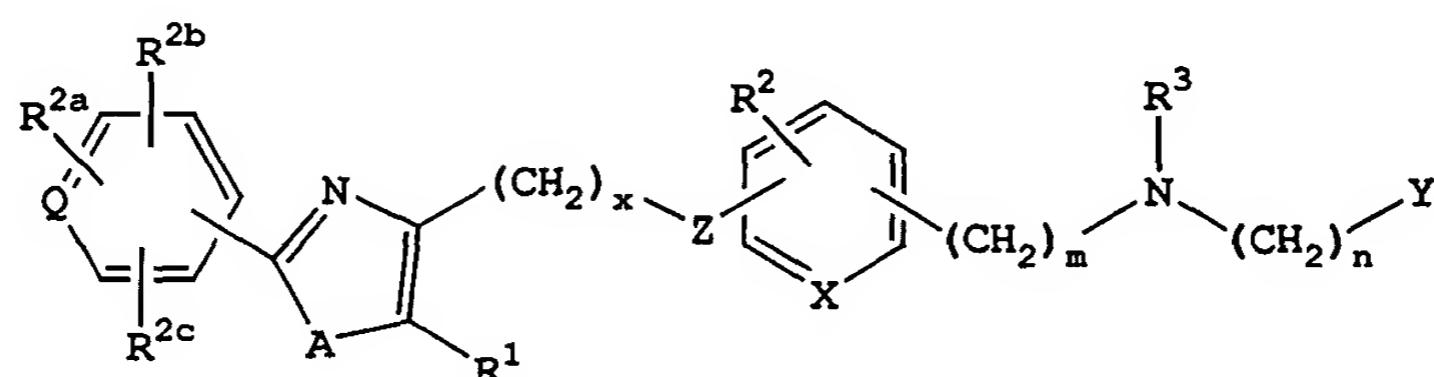
--32. The method as defined in Claim 55 wherein the compound employed has the structure



**Claim 33 (cancelled)**

**Claim 34 (currently amended)**

--34. A method for lowering blood glucose levels or for treating diabetes, or for treating an early malignant disease, a malignant disease, a malignant disease, or a dysplastic disease, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound which has the structure



wherein x is 1,2, 3 or 4; m is 1 or 2; n is 1 or 2;

Q is C or N;

A is O or S;

Z is O or a bond;

R<sup>1</sup> is H or lower alkyl;

X is CH;

R<sup>2</sup> is H, or alkyl, alkoxy, halogen, amino or substituted amino;

$R^{2a}$ ,  $R^{2b}$  and  $R^{2c}$  are the same or different and are selected from H, or alkyl, alkoxy, halogen, amino or substituted amino;

$R^3$  is aryloxycarbonyl, alkyloxycarbonyl, alkynyloxycarbonyl, alkenyloxycarbonyl, alkyl(halo)aryloxycarbonyl, alkyloxy(halo)aryloxycarbonyl, cycloalkylaryloxycarbonyl, cycloalkyloxyaryloxycarbonyl, alkylcarbonylamino, arylcarbonylamino, heteroarylcarbonylamino, alkoxycarbonylamino, aryloxycarbonylamino, heteroaryloxycarbonylamino, alkylsulfonyl, alkenylsulfonyl, heteroaryloxycarbonyl, cycloheteroalkyloxycarbonyl, heteroarylalkenyl, hydroxyalkyl, alkoxy, alkoxyaryloxycarbonyl, arylalkyloxycarbonyl, alkylaryloxycarbonyl, alkynyloxycarbonyl, haloalkoxyaryloxycarbonyl, alkoxycarbonylaryloxycarbonyl, aryloxyaryloxycarbonyl, arylalkenylloxycarbonyl, heteroaryloxyarylalkyl, aryloxyarylalkyloxycarbonyl, aryloxyalkyloxycarbonyl, arylalkylsulfonyl, arylthiocarbonyl, arylalkenylsulfonyl, heteroarylsulfonyl, arylsulfonyl, heteroarylalkoxycarbonyl, heteroarylalkyloxyarylalkyl, arylalkenylarylalkyl, arylalkoxycarbonylheteroarylalkyl, heteroaryloxyarylalkyl, arylalkenylheteroarylalkyl or polyhaloalkylaryloxycarbonyl;

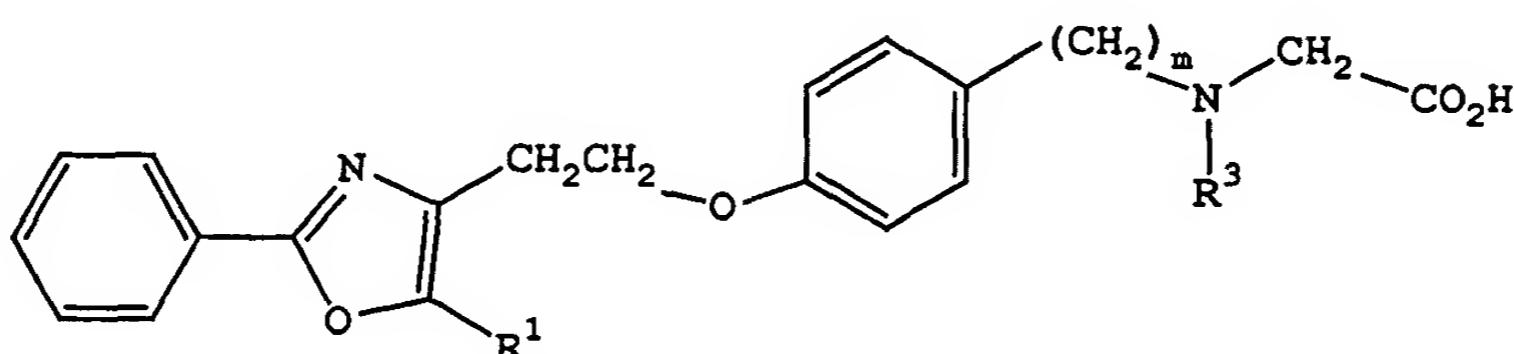
Y is  $CO_2R^4$  where  $R^4$  is H or alkyl, or a prodrug ester or Y is a C linked 1-tetrazole, a phosphinic acid of the structure  $P(O)(OR^{4a})R^5$  where  $R^{4a}$  is H or a prodrug ester,  $R^5$  is alkyl or aryl or a phosphonic acid of the structure  $P(O)(OR^{4a})_2$  where  $R^{4a}$  is H or a prodrug ester;

or stereoisomers thereof, a prodrug esters ester thereof, and a pharmaceutically acceptable salts salt thereof. —

### Claims 35 to 54 (cancelled)

### Claim 55 (previously added)

55. A method for lowering blood glucose levels or for treating diabetes, which comprises administering to a patient in need of treatment a therapeutically effective amount of a compound which has the structure



where  $R^1$  is alkyl,

$(\text{CH}_2)_m$  is  $\text{CH}_2$  or  $\text{---} \begin{array}{c} \text{CH}_3 \\ | \\ \text{CH} \end{array} \text{---}$  and  $\text{R}^3$  is aryloxycarbonyl or alkoxyaryloxycarbonyl.

**Claim 56 (previously added)**

56. The method as defined in Claim 55 where in the compound employed  $(\text{CH}_2)_m$  is  $\text{CH}_2$ .

**Claims 57 and 58 (cancelled)**